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"For All Your Hydraulic Needs"

CROSS

Cross Hydraulics

Price List 2024

WARNING NOTICE / DISCLAIMER

BY USING THE ATTACHED PRICE LIST YOU ACKNOWLEDGE THAT YOU HAVE READ THE ATTACHED AGREEMENT, UNDERSTAND IT AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS.

FAILURE, MISUSE, IMPROPER SELECTION OF THE COMPONENTS DESCRIBED HEREIN OR USE BY PERSONS LACKING SUFFICIENT EXPERTISE, MAY CAUSE DEATH, SERIOUS INJURY AND/OR PROPERTY DAMAGE.

This price list, as well as all other catalogues, price lists and information provided by Cross Hydraulics Pty. Ltd., its subsidiaries or authorised distributors, is intended to provide general product information and/or system options for further consideration by users having substantial technical expertise. It is imperative that all aspects of any intended use be analysed and all pertinent information be reviewed concerning the component or system in a current product catalogue. Due to the diversity of possible applications and operating conditions for these components and systems, the user, through its own analysis, testing and evaluation, is solely responsible for making the final selection of the products and systems and ensuring that all safety warning and performance requirements of the application or use are met.

Cross Hydraulics Pty. Ltd. has made all reasonable efforts to present accurate information in this price list and shall not be responsible for any incorrect information which may result from unintentional oversight. Due to continuous product improvement, the product specifications as stated in this price list are subject to change by Cross Hydraulics Pty. Ltd. at any time without notice.

EFFECTIVE 1ST JULY 2000, ALL PRICES LISTED IN THIS PRICE LIST EXCLUDE GOODS AND SERVICES TAX (G.S.T.)

THIS PRICE LIST IS INTENDED FOR BUSINESS TO BUSINESS SALES.

PRICES IN THIS PRICE LIST ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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WARRANTY POLICY

Cross Hydraulics' Products are warranted against defects in workmanship and materials for twelve months after date of invoice, when properly installed within product specifications. Our obligation under this warranty is limited to repair or replacement of the product F.O.B. factory, and subject to our inspection. This warranty does not obligate Cross Hydraulics Pty Ltd to bear any cost of labour for field replacement or incurred liability for systems malfunction of items installed on equipment.

That portion of the product returned for warranty claim and verified by our examination will be repaired or replaced free of charge. Any additional parts or labour required to rebuild or replace (not covered under our warranty) will be charged to the customer. Freight charges for return of the product to the customer and also the incoming freight are to be prepaid by the customer.

Cross Hydraulics Pty Ltd is not obligated for any repair or replacement of any products altered or repaired by any other parties without written authorisation.

Cross Hydraulics Pty Ltd reserves the right to discontinue products or make design changes, which do not affect product installation inter-changeability, at any time without incurring any obligation.

Cross products carry no warranty other than as set forth in the above warranty statement, either expressed or implied.

The only warranty extended to the buyer by Cross Hydraulics Pty Ltd is the above expressed warranty and there are no other warranties, expressed or implied, of merchantability, fitness for a particular purpose, or otherwise, which extend beyond the face hereof. Cross Hydraulics Pty Ltd shall in no event be liable for labour or freight charges or for consequential or incidental damages including, but not limited to, injury to the person or property of buyer or any others, machine down time, and losses and expenses incurred by buyer, arising from the use of this equipment or from this agreement. This warranty constitutes the entire warranty of Cross Hydraulics Pty Ltd and no oral representations, warranties, or guarantees by any agent of manufacture or seller shall be binding to Cross Hydraulics Pty Ltd and no part of this warranty may be modified or extended except by written agreement executed by Cross Hydraulics Pty Ltd.

It is the policy of Cross Hydraulics Pty Ltd to improve its products whenever possible and practical to do so. We reserve the right to make changes, improvements and modifications at any time without incurring the obligation to make such changes, improvements and modifications on any equipment sold previously.

PROCEDURE FOR WARRANTY CLAIMS

1. Customers wishing to return products for claim, under Cross Warranty Policy, must first request approval stating in detail the reason for such claim, provide original invoice number, complete model number of items and method transport for forward and return of goods.

2. Approval for return of goods will be advised by the issue of a "Returned Goods Authorisation" number. Freight must be prepaid. Goods returned without authorisation will be returned to the customer in the same condition as received on a "Freight Forward" basis. Goods returned without having the freight prepaid will not be accepted from the carrier.

3. Cross Hydraulics will assess the warranty claims on the return of goods and determine responsibility for the fault. Only complete products will be considered for claims. Component parts will not be accepted. Products that have had attempted repairs or been dismantled by parties other than Cross Hydraulics Pty Ltd will not be considered for claims under warranty.

4. A copy of the Cross Service Report Sheet will be provided to the customer for their information on both warranty claims approved and rejected.

5. On claims approved, Cross Hydraulics Pty Ltd will repair the product to Cross specifications or should product be unable to be repaired, a new replacement will be supplied F.O.B. - Cross Hydraulics Pty Ltd.

6. On claims rejected, a copy of the Cross Service Report Sheet containing an estimated cost to repair the goods, will be forwarded to the customer for their perusal. On receipt of customers official order, goods will be repaired and returned "Freight Forward" to customer.

PROCEDURE FOR CREDIT CLAIMS

1. Same as for warranty claims above with the following additional conditions:

   a) Goods must be returned in an "as sold" condition.

   b) Goods returned for credit may be subject to a 15% Re-Stocking Fee.

2. Goods must be returned within thirty (30) days of invoice.

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Section 1
Mobile Directional Control Valves

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Galtech	DDF3VAP Diverter Valves	1.46
Galtech	D4V Diverter Valves	1.47
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Galtech	D6V Diverter Valves	1.48
Galtech	D8V Diverter Valves	1.49
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Various	Cable Remote Controls	1.51
Various	Cable Remote Controls	1.52
Various	Cable Remote Controls	1.53
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Hypower	Cable Remote Controls	1.55
Hypower	Cable Remote Controls	1.56
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Made In Italy	Proportional Pilot Manifolds	1.65

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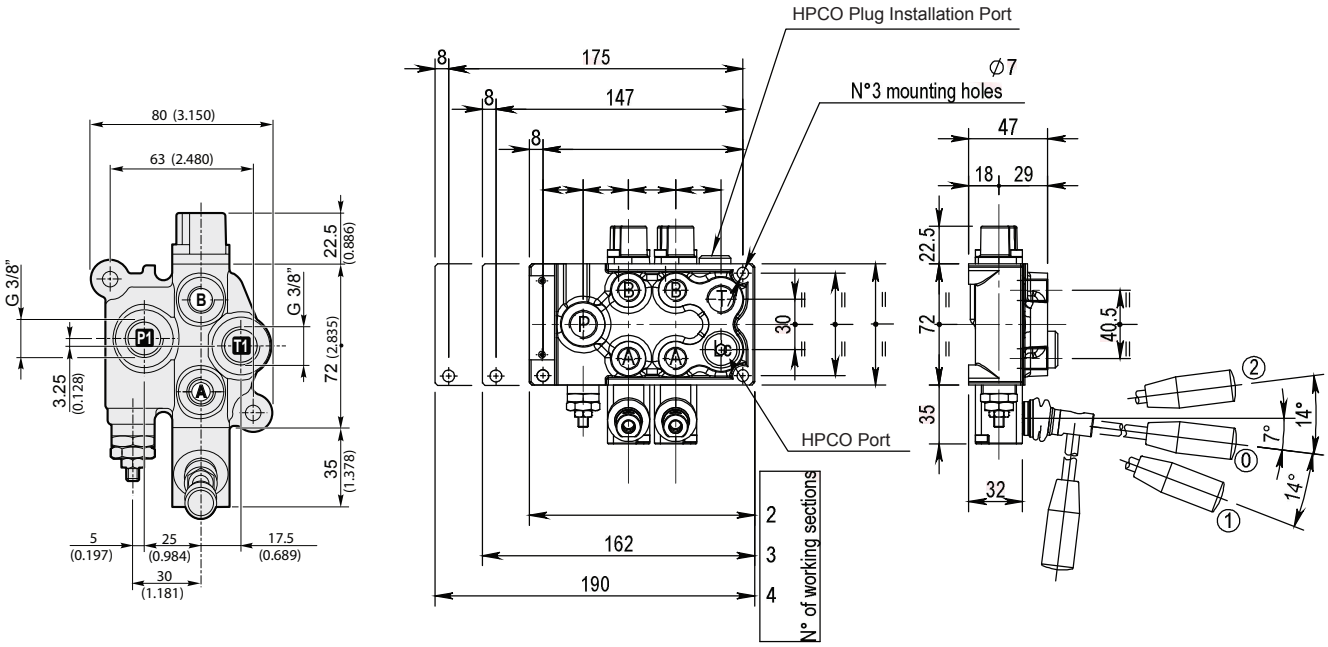
QMV15 Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(COMMON LOAD CHECK ON INLET)

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
Q15103A1M1	Q15F1SN103A1M1	1	20 LPM	7.5 US GPM	210 BAR	3000 PSI	3/8" BSPP P & T 1/4" BSPP A & B	$ 280.00
QMV152103A1M1	Q152F7SN103A1M1	2						$ 400.00
QMV153103A1M1	Q153F7SN103A1M1	3						$ 430.00
QMV154103A1M1	Q154F7SN103A1M1	4						$ 540.00
QMV152103N1A1M1	Q15/2 Micro *	2						$ 448.00
QMV153103N1A1M1	Q15/3 Micro *	3						$ 613.00
QMV154103N1A1M1	Q15/4 Micro *	4						$ 794.00
QMV152103A1D41	Q15/2 Electric	2						$ 1115.00
QMV153103A1D41	Q15/3 Electric	3						$ 1605.00
QMV154103A1D41	Q15/4 Electric	4						$ 2110.00



Spools 103 and 111 only available
Spools 101 and 102 Single Acting not available

QMV15 Options and Accessories

Stock No.	Model Code	Description	List Price
01741R1	R1	Detent - 2 Position - Handle Out	$ 40.00
01742R2	R2	Detent - 2 Position - Handle In	$ 40.00
01743R3	R3	Detent - 3 Position	$ 40.00
01637A3512	A35	Joystick 'Plus' Axis	$ 265.00
QMVPB	F6D	Power Beyond Plug 1/8" BSPP	$ 10.00
*413080005	N1	Microswitch	$ 39.00

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HCM45 Monoblock Valves

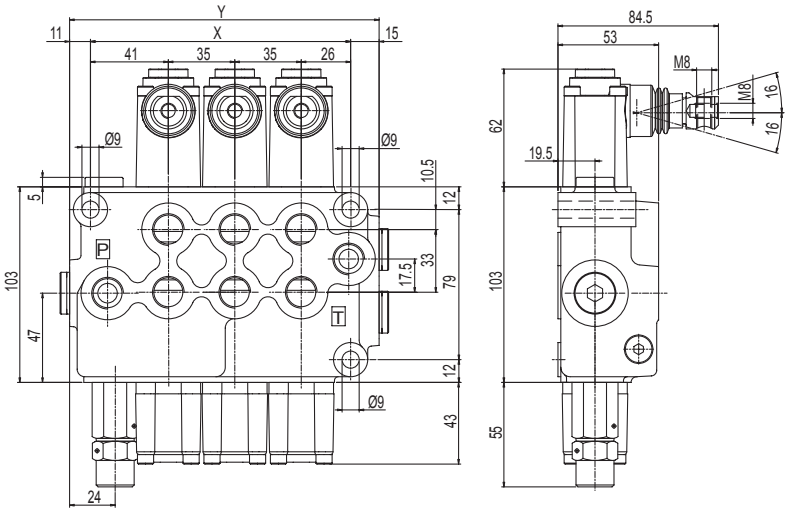
Monoblock Directional Control Valve Manually Operated

(COMMON LOAD CHECK ON INLET)

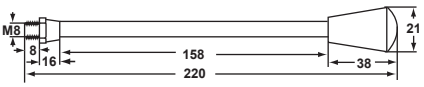
Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
HC52691	HCM45/1	1	45 LPM	12 US GPM	350 BAR	5000 PSI	3/4" UNO	$ 319.00
HC52693	HCM45/2	2						$ 451.00
HC52692	HCM45/3	3						$ 800.00
HC52680	HCM45/4	4						$ 784.00
HC52683	HCM45/5	5						$ 836.00
HC63170	HCM45/6	6						$ 994.00
HC52690	HCM45/1 Float	1						$ 395.00

All Ports: SAE 08 (3/4" UN O'Ring.)

Important Note For HCM45/1 Only:
Use of the High Pressure Carry-Over vents relief to HPC Port.

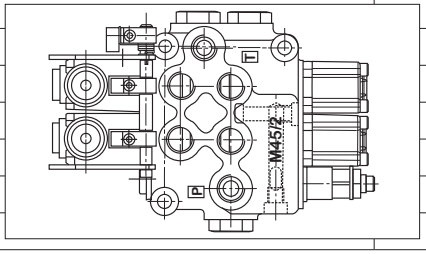


Code	HCM45/1	HCM45/2	HCM45/3	HCM45/4	HCM45/5	HCM45/6
Dim. X	67	10W2	137	172	207	242
Dim. Y	93	128	163	198	233	268
Weight (Kg)	2.7	4.1	5.5	6.9	8.3	9.7



HCM45 Options and Accessories

Stock No.	Model Code	Description	List Price
320872007	F002A	Detent Kit - 3 Position	$ 100.00
320872008	F003A	Detent Kit - 2 Position - Handle 'Out'	$ 66.00
320872009	F004A	Detent Kit - 2 Position - Handle 'In'	$ 66.00
HCM45F005A	F005A	4th Position Float Spool Kit	$ 81.00
320772004	F009A	Detent Kit - 2 Position	$ 35.00
320772005	F010A	Detent Kit - 2 Position	$ 35.00
320772006	F013A	Spring Centre with Thru Rod M8	$ 32.00
321172001	F020A	Pneumatic Pilot Kit	$ 209.00
413010210		Power Beyond/Closed Centre Plug (Loose supplied)	$ 10.00
430172001	XX	'No Relief' Plug	$ 17.00
HC52684	MICRO H013	HCM45/1 Microswitch Provision	$ 127.00
HC52685	MICRO H013	HCM45/2 Microswitch Provision	$ 165.00
HC63163	MICRO H013	HCM45/3 Microswitch Provision	$ 182.00
HC52686	MICRO H013	HCM45/4 Microswitch Provision	$ 209.00
HC63164	MICRO H013	HCM45/5 Microswitch Provision	$ 231.00
HC63165	MICRO H013	HCM45/6 Microswitch Provision	$ 262.00

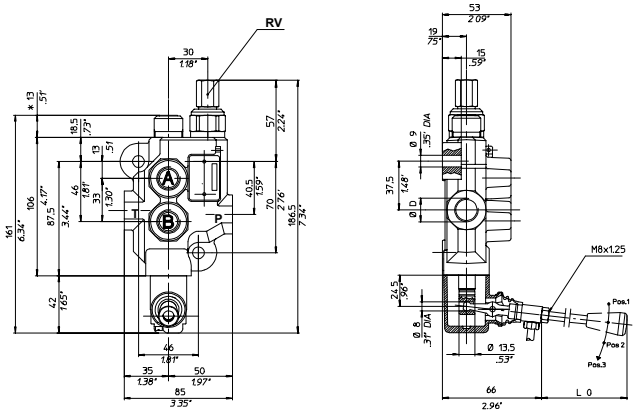


HDM140 Monoblock Valves

Monoblock Directional Control Valve Manually Operated

(SINGLE SPOOL ONLY - NO POWER BEYOND OPTION)

Stock No.	Model Code	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
051417006	HDM140/1K05-140/A01	40 LPM	10 US GPM	320 BAR	4600 PSI	3/4" UNO	$ 231.00



HDM140 Options and Accessories

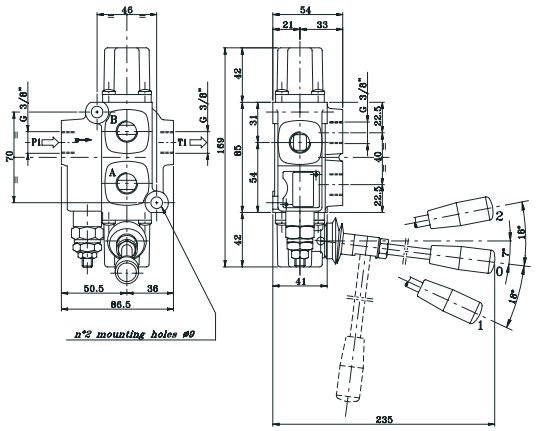
Stock No.	Model Code	Description	List Price
768520010	03	Detent Kit - 3 Position	$ 60.00
651209010	Type 'G'	Single Acting Spool (Not available as a spare part)	$ 40.00
651207010	Type 'C'	Motor Spool (Not available as a spare part)	$ 40.00
SET-HDM140	SET-HDM140	Pre-Set Relief Valve (Other than factory set @ 140 Bar)	$ 12.00

Q35 Monoblock Valves

Monoblock Directional Control Valve Manually Operated

(SINGLE SPOOL ONLY - NO POWER BEYOND OPTION)

Stock No.	Model Code	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
Q35103A1M1	Q35FSN103A1M1	40 LPM	10 US GPM	300 BAR	4350 PSI	3/4" UNO	$ 380.00



Q35 Options and Accessories

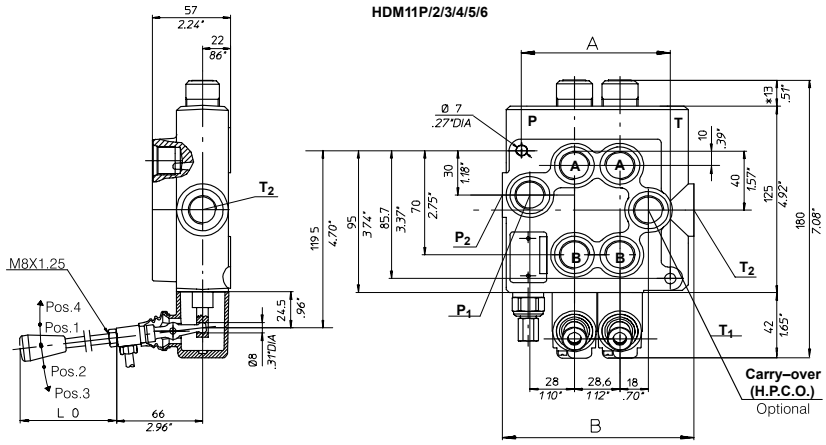
Stock No.	Model Code	Description	List Price
03743R303	R3	Detent Kit - 3 Position	$ 60.00
03661P1N	P1N	Pneumatic Pilot Kit	$ 165.00
03622A803	A8	Cable Connector Kit	$ 44.00

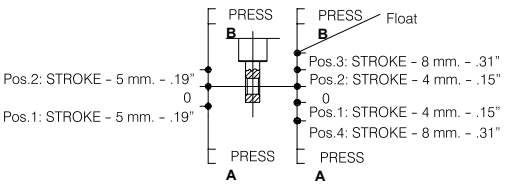
HDM11P Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(COMMON LOAD CHECK ON INLET)

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
061127006	HDM11P/2K12150AA01	2	40 LPM	10 US GPM	300 BAR	4300 PSI	3/4" UNO	$ 506.00
061137011	HDM11P/3K12150AAA01	3						$ 671.00
061147005	HDM11P/4K12150AAAA01	4						$ 821.00
061157002	HDM11P/5K12150AAAAA01	5						$ 962.00
061167006	HDM11P/6K12150AAAAAA01	6						$ 1113.00





No. of Sections	HDM11P/2	HDM11P/3	HDM11P/4	HDM11P/5	HDM11P/6
Dimension A	93.6	122.2	150.8	179.4	208
	3.68"	4.81"	5.93"	7.06"	8.18"
Dimension B	128.6	157.2	185.8	214.4	243
	5.06"	6.19"	7.31"	8.44"	9.56"

HDM11P Options and Accessories

Stock No.	Model Code	Description	List Price
768520010	Type 03	Detent Kit - 3 Position (03)	$ 60.00
768520050	Type 05	Detent Kit - 2 Position 'Out' (05)	$ 60.00
768530010	Type 02	Detent Kit - 2 Position 'In' (02)	$ 60.00
768540030	Type 04	4th Position Float Spool Kit (Not available as a spare part)	$ 120.00
651209010	Type G	Single Acting Spool (Not available as a spare part)	$ 40.00
651207010	Type C	Motor Spool (Not available as a spare part)	$ 40.00
SET-HDM11P	SET-HDM11P	Pre-set Relief Valve (Other than factory set @ 150 bar)	$ 13.00
413010210		Power Beyond Plug	$ 10.00
413010210		Closed Centre Plug	$ 10.00
775920200	Type L130	'Plus' Axis Joystick Kit (per Joystick Assembly)	$ 247.00
778400140		No Relief Valve Kit	$ 28.00
760900030	Type L102	Cable Connector Kit	$ 46.00
768610500	Type 30	Micro Switch Provision - Position '1' (per Spool)	$ 110.00
768610600	Type 32	Micro Switch Provision - Position '2' (per Spool)	$ 110.00
768610640	Type 34	Micro Switch Provision - Position '1' & '2' (per Spool)	$ 110.00

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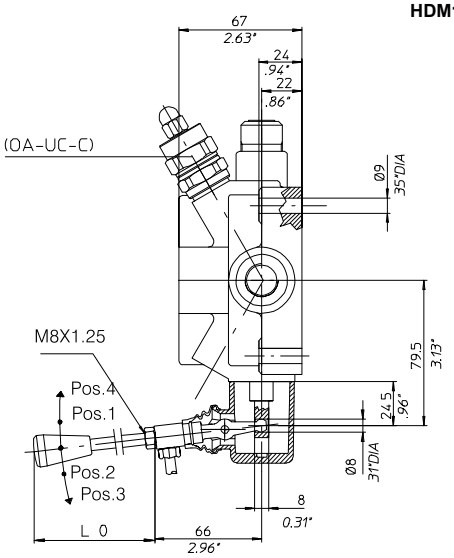
HDM11S Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

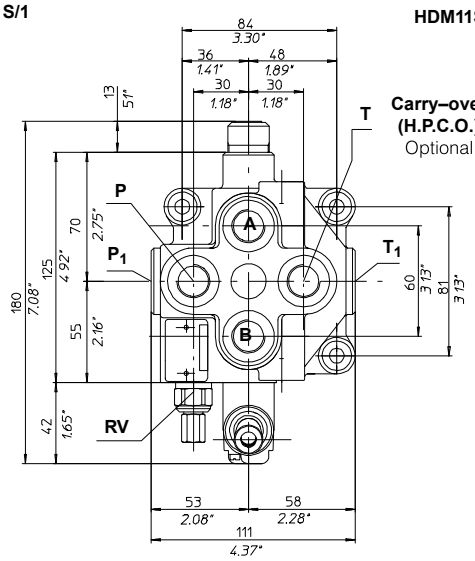
(INDIVIDUAL LOAD CHECK ON EACH SPOOL)

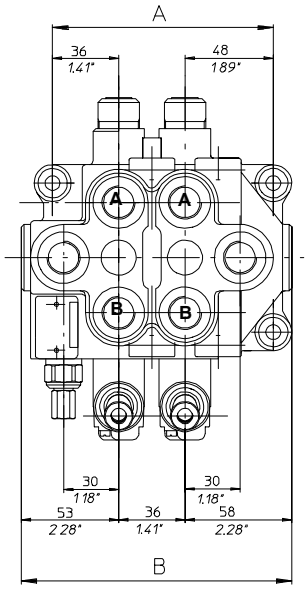
Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
061117003	HDM11S/1K12150A01	1	40 LPM	10 US GPM	300 BAR	4300 PSI	3/4" UNO	$ 357.00
061127009	HDM11S/2K12150A01X2	2						$ 506.00
061137013	HDM11S/3K12150A01X3	3						$ 671.00
061147009	HDM11S/4K12150A01X4	4						$ 821.00

HDM11S/1



HDM11S/2/3/4





No. of Sections	HDM11S/2	HDM11S/3	HDM11S/4
Dimension A	120	156	192
	4.72"	6.14"	7.56"
Dimension B	147	183	219
	5.78"	7.20"	8.62"

HDM11S Options and Accessories

Stock No.	Model Code	Description	List Price
768520010	Type 03	Detent Kit - 3 Position (03)	$ 60.00
768520050	Type 05	Detent Kit - 2 Position 'Out' (05)	$ 60.00
768530010	Type 02	Detent Kit - 2 Position 'In' (02)	$ 60.00
768540030	Type 04	4th Position Float Spool Kit (Not available as a spare part)	$ 120.00
651209010	Type G	Single Acting Spool (Not available as a spare part)	$ 40.00
651207010	Type C	Motor Spool (Not available as a spare part)	$ 40.00
SET-HDM11S	SET-HDM11S	Pre-set Relief Valve (Other than factory set @ 150 bar)	$ 13.00
413010210		Power Beyond Plug	$ 10.00
413010210		Closed Centre Plug	$ 10.00
775920040	Type L247	'Plus' Axis Joystick Kit (per Joystick Assembly)	$ 247.00
778400140		No Relief Valve Kit	$ 28.00
760900030	Type L102	Cable Connector Kit	$ 46.00
768610500	Type 30	Micro Switch Provision - Position '1' (per Spool)	$ 110.00
768610600	Type 32	Micro Switch Provision - Position '2' (per Spool)	$ 110.00
768610640	Type 34	Micro Switch Provision - Position '1' & '2' (per Spool)	$ 110.00

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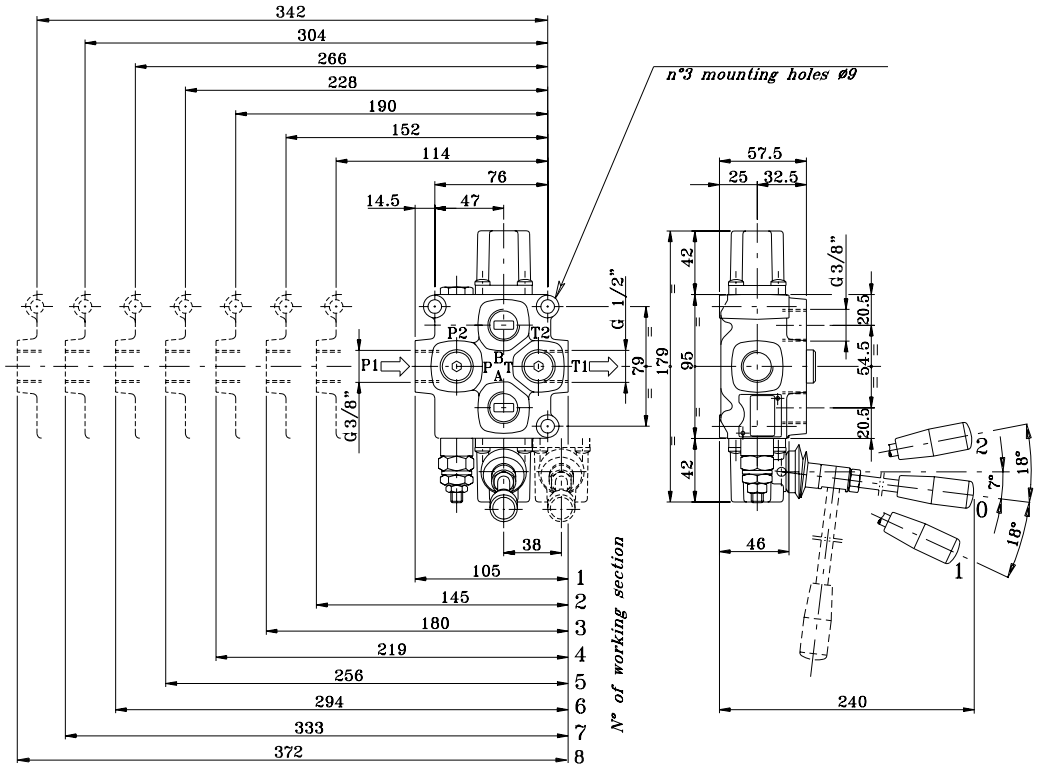
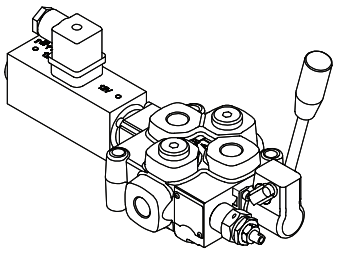
Q25 Monoblock Valves

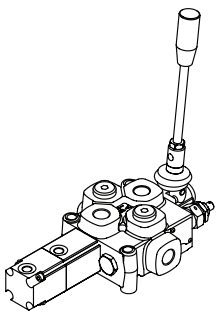
Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

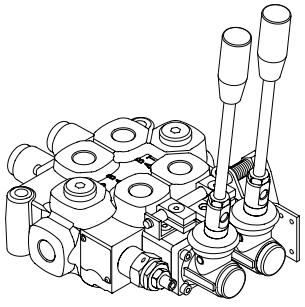
(COMMON LOAD CHECK ON INLET)

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
Q251103A1M1	Q251EF1SN103A1M1F3DS	1	40 LPM	10 US GPM	350 BAR	5075 PSI	3/8" BSPP	$ 310.00
Q252103A1M1	Q252EF1SN2X103A1M1F3DS	2						$ 495.00
Q253103A1M1	Q253EF1SN3X103A1M1F3DS	3			320 BAR	4640 PSI		$ 626.00
Q254103A1M1	Q254EF1SN4X103A1M1F3DS	4			300 BAR	4350 PSI		$ 770.00
Q255103A1M1	Q255EF1SN5X103A1M1F3DS	5						$ 954.00
Q256103A1M1	Q256EF1SN6X103A1M1F3DS	6						$ 1187.00
Q257103A1M1	Q257EF1SN7X103A1M1F3DS	7						$ 1327.00
Q258103A1M1	Q258EF1SN8X103A1M1F3DS	8						$ 1552.00









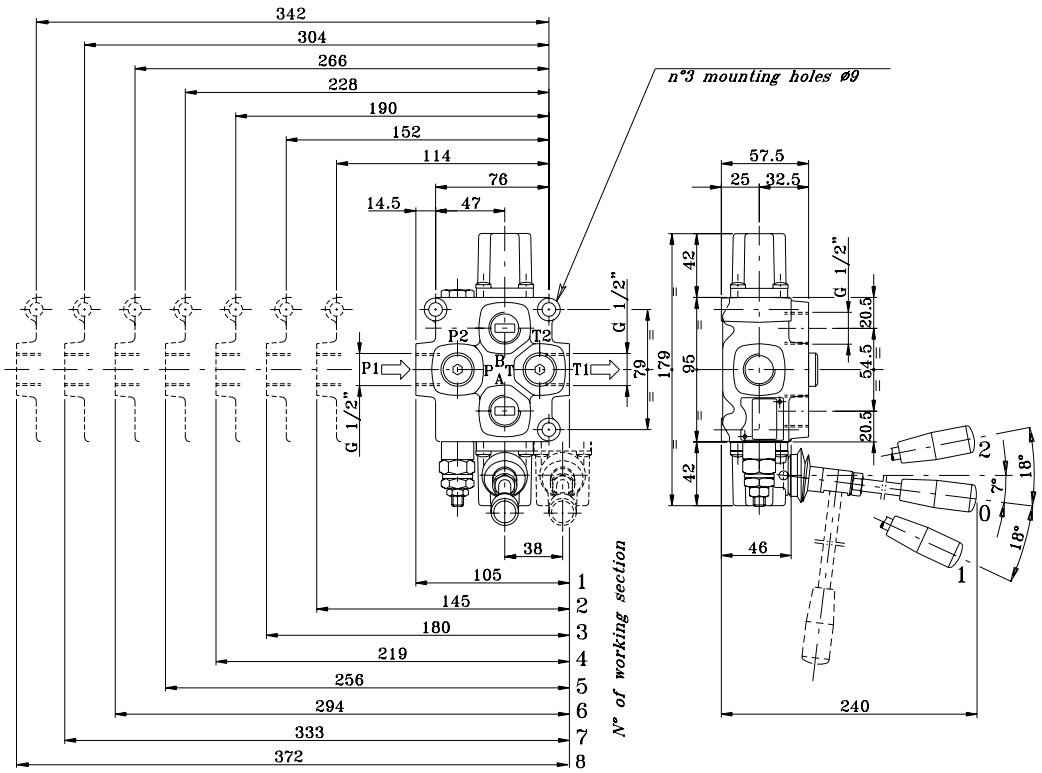
Q25 Options and Accessories see Page 1.09

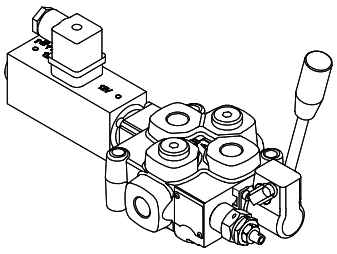
Q45 Monoblock Valves

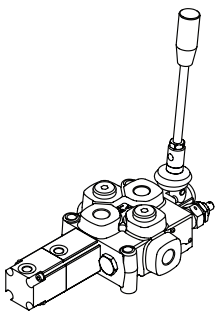
Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

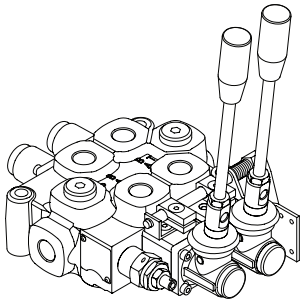
(COMMON LOAD CHECK ON INLET)

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
Q451103A1M1	Q451EF1SN103A1M1F3DS	1	45 LPM	12 US GPM	350 BAR	5075 PSI	1/2" BSPP	$ 354.00
Q452103A1M1	Q452EF1SN2X103A1M1F3DS	2						$ 531.00
Q453103A1M1	Q453EF1SN3X103A1M1F3DS	3			320 BAR	4640 PSI		$ 695.00
Q454103A1M1	Q454EF1SN4X103A1M1F3DS	4			300 BAR	4350 PSI		$ 885.00
Q455103A1M1	Q455EF1SN5X103A1M1F3DS	5						$ 999.00
Q456103A1M1	Q456EF1SN6X103A1M1F3DS	6						$ 1213.00
Q457103A1M1	Q457EF1SN7X103A1M1F3DS	7						$ 1327.00
Q458103A1M1	Q458EF1SN8X103A1M1F3DS	8						$ 1591.00







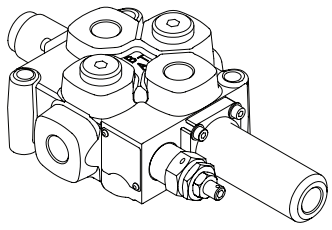


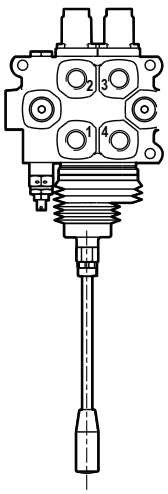
Q45 Options and Accessories see Page 1.09

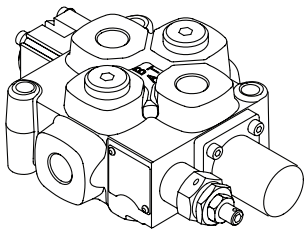
Q25 / Q45 Accessories

Q25 / Q45 Options and Accessories

Stock No.	Model Code	Description	List Price
03732M203	M2	Offset Kit 2 Position 0-1 Centred 0	$ 33.00
03733M303	M3	Offset Kit 2 Position 0-2 Centred 0	$ 31.00
03735M412	M4 (1-2)	Offset Kit Handle In	$ 33.00
03735M421	M4 (2-1)	Offset Kit Handle Out	$ 33.00
03741R103	R1	Detent Kit - 2 Position Handle Out	$ 60.00
03742R203	R2	Detent Kit - 2 Position Handle in	$ 60.00
03743R303	R3	Detent Kit - 3 Position	$ 60.00
03661P1N	P1N	Pneumatic Pilot Kit	$ 165.00
03661P1NP	P1NP	Pneumatic Pilot Kit - Proportional	$ 175.00
03779H1	H1	Hydraulic Pilot Kit	$ 165.00
03785H5	H5	Hydraulic Pilot Kit	$ 132.00
03792C2C3	C2/C3	Cam Control Kit	$ 137.00
03799RTL	RTL	Rotary Control	$ 150.00
03622A8	A8	Cable Connector Kit - 2 Piece	$ 46.00
03622A803	A803	Cable Connector Kit - 1 Piece	$ 44.00
03637A15DR	A15	'Plus' Axis Joystick	$ 375.00
A1D4	A1D41	Electric Control	$ 385.00
126A1R10Z1KIT	126A1R10Z1KIT	Float 4 Position Spool Kit	$ 300.00
N1A110-1	N1A1-1	Micro Switch Provision - 1 Spool	$ 152.00
N1A110-2	N1A1-2	Micro Switch Provision - 2 Spool	$ 238.00
N1A110-3	N1A1-3	Micro Switch Provision - 3 Spool	$ 324.00
N1A110-4	N1A1-4	Micro Switch Provision - 4 Spool	$ 410.00
N1A110-5	N1A1-5	Micro Switch Provision - 5 Spool	$ 496.00
N1A110-6	N1A1-6	Micro Switch Provision - 6 Spool	$ 582.00
N1A110-7	N1A1-7	Micro Switch Provision - 7 Spool	$ 668.00
N1A110-8	N1A1-8	Micro Switch Provision - 8 Spool	$ 754.00
03743R1K03	R1K	Pressure Kickout Handle Out	$ 165.00
02566F6D	F6D - Q25	Power Beyond Sleeve - 3/8" BSPP - Q25	$ 40.00
04566F6D	F6D - Q45	Power Beyond Sleeve - 1/2" BSPP - Q45	$ 40.00
02567F16D	F16D - Q25	Closed Centre Plug - Q25	$ 60.00
04567F16D	F16D - Q45	Closed Centre Plug - Q45	$ 60.00





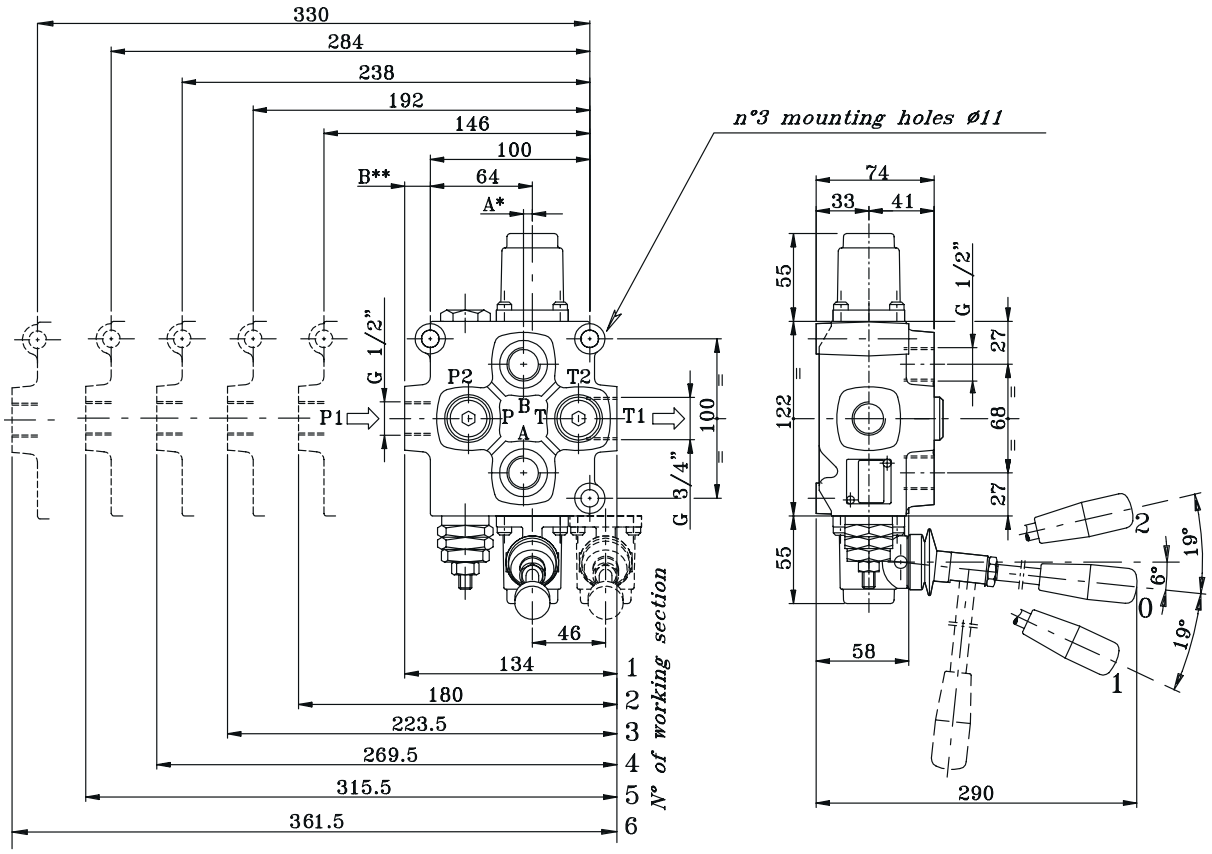


Q75 Monoblock Valves

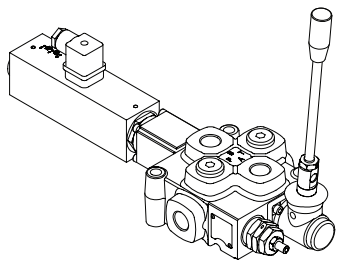
Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

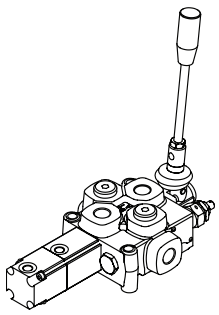
(COMMON LOAD CHECK ON INLET)

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
Q751103A1M1	Q751EF1SN103A1M1F3D	1	75 LPM	20 US GPM	350 BAR	5075 PSI	7/8" UNO IN/WORK 1-1/16" UNO TANK	$ 400.00
Q752103A1M1	Q752EF1SN2X103A1M1F3D	2						$ 570.00
Q753103A1M1	Q753EF1SN3X103A1M1F3D	3			300 BAR	4350 PSI		$ 649.00
Q754103A1M1	Q754EF1SN4X103A1M1F3D	4			270 BAR	3900 PSI		$ 930.00
Q755103A1M1	Q755EF1SN5X103A1M1F3D	5						$ 1190.00
Q756103A1M1	Q756EF1SN6X103A1M1F3D	6						$ 1209.00



* : A = 5.5 for 1 working section, A = 0 for 2, 3, 4 and 5 working sections
** : B = 16 for 1, 2, 3 working sections, B = 13.5 for 4 and 5 working sections





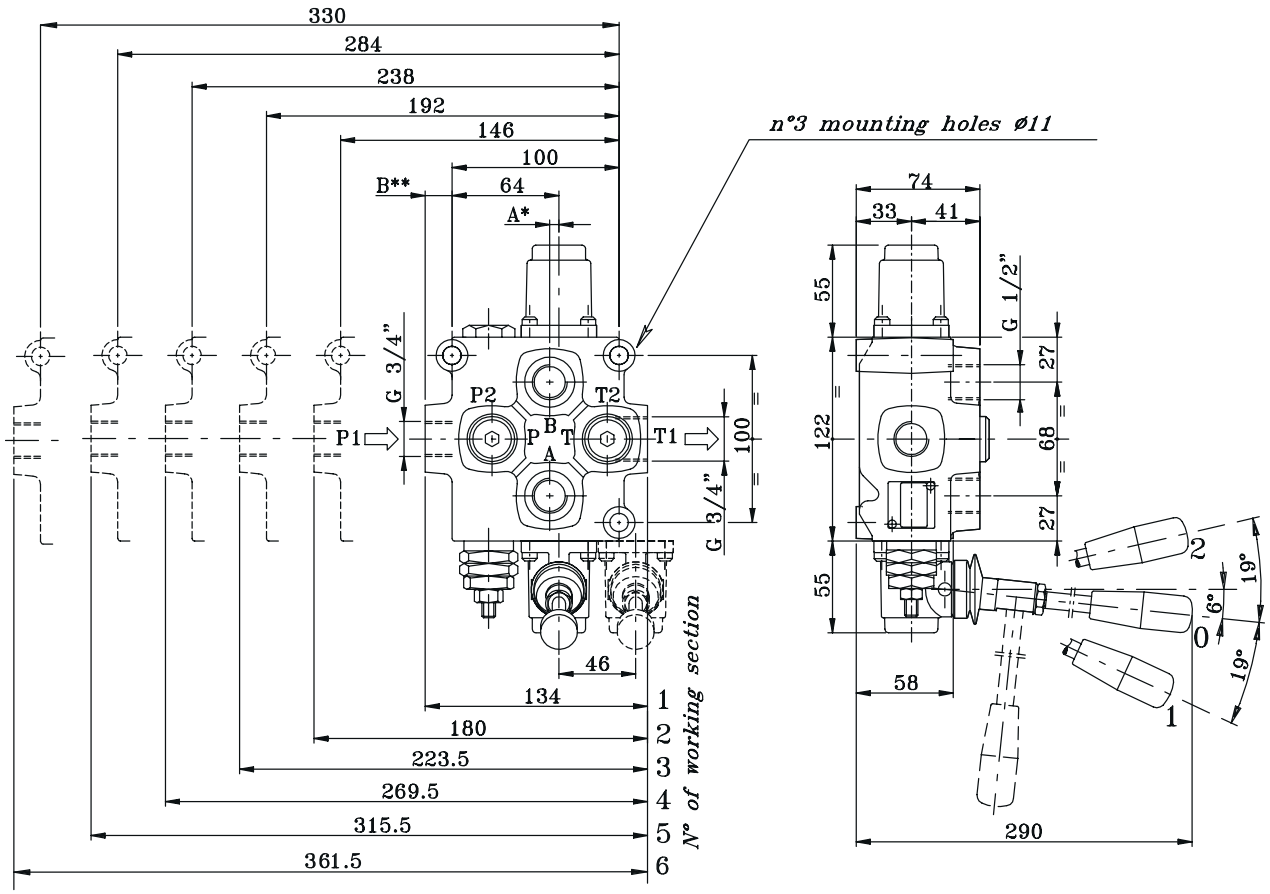
Q75 Options and Accessories see Page 1.12

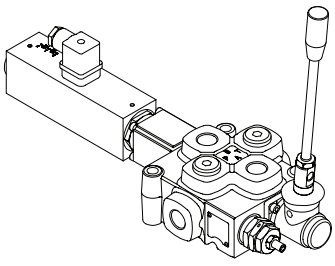
Q95 Monoblock Valves

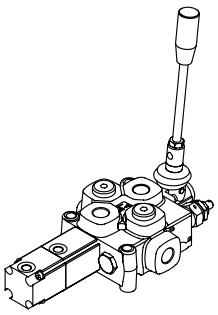
Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(COMMON LOAD CHECK ON INLET)

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
Q951103A1M1	Q951EF1SN103A1M1F3D	1	120 LPM	30 US GPM	350 BAR	5075 PSI	3/4" BSPP	$ 424.00
Q952103A1M1	Q952EF1SN2X103A1M1F3D	2						$ 640.00
Q953103A1M1	Q953EF1SN3X103A1M1F3D	3			300 BAR	4350 PSI		$ 813.00
Q954103A1M1	Q954EF1SN4X103A1M1F3D	4			270 BAR	3915 PSI		$ 1076.00
Q955103A1M1	Q955EF1SN5X103A1M1F3D	5						$ 1200.00
Q956103A1M1	Q956EF1SN6X103A1M1F3D	6						$ 1300.00





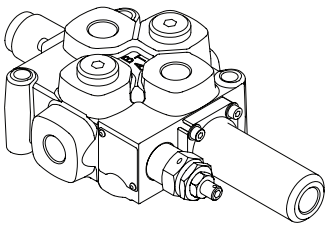


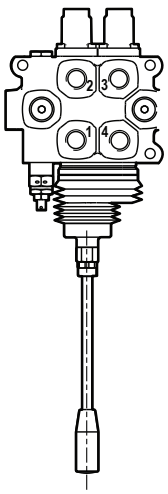
Q95 Options and Accessories see Page 1.12

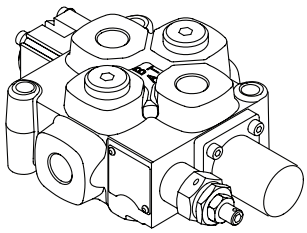
Q75 / Q95 Accessories

Q75 / Q95 Options and Accessories

Stock No.	Model Code	Description	List Price
08743R3	R3	Detent Kit - 3 Position	$ 69.00
08741R1	R1	Detent Kit - 2 Position Handle Out	$ 82.00
08742R2	R2	Detent Kit - 2 Position Handle In	$ 82.00
08561P1N	P1N	Pneumatic Pilot Kit	$ 230.00
08661P1NP	P1NP	Pneumatic Pilot Kit - Proportional	$ 230.00
08779H1	H1	Hydraulic Proportional Kit	$ 203.00
08785H5	H5	Hydraulic Proportional Kit	$ 159.00
08792C2C3	C2/C3	Cam Control Kit	$ 142.00
08799RTL	RTL	Rotary Control	$ 137.00
08622A8	A8	Cable Connector Kit	$ 66.00
08637A3512	A15	'Plus' Axis Joystick	$ 270.00
126A1R10Z1KIT	126A1R10Z1KIT	Float 4 Position Spool Kit	$ 300.00
A1D3	D3	Electro Pneumatic Actuator	$ 484.00
A1D41	D41	Electric Control 12 or 24 V	$ 500.00
05566F6D	F6D - BSP Q75	Power Beyond Sleeve - 1/2" BSPP - Q75	$ 33.00
05566F6DSAE	F6D - SAE Q75	Power Beyond Sleeve - 7/8" UNO - Q75	$ 60.00
09566F6D	F6D - BSP Q95	Power Beyond Sleeve - 3/4" BSPP - Q95	$ 50.00
05567F16D	F16D - BSP Q75	Closed Centre Plug - BSPP - Q75	$ 33.00
05567F16DSAE	F16D - SAE Q75	Closed Centre Plug - SAE - Q75	$ 33.00
09567F16D	F16D - BSP Q95	Closed Centre Plug - BSPP - Q95	$ 44.00
10743R1K	R1K	Pressure Kickout - Handle Out	$ 250.00





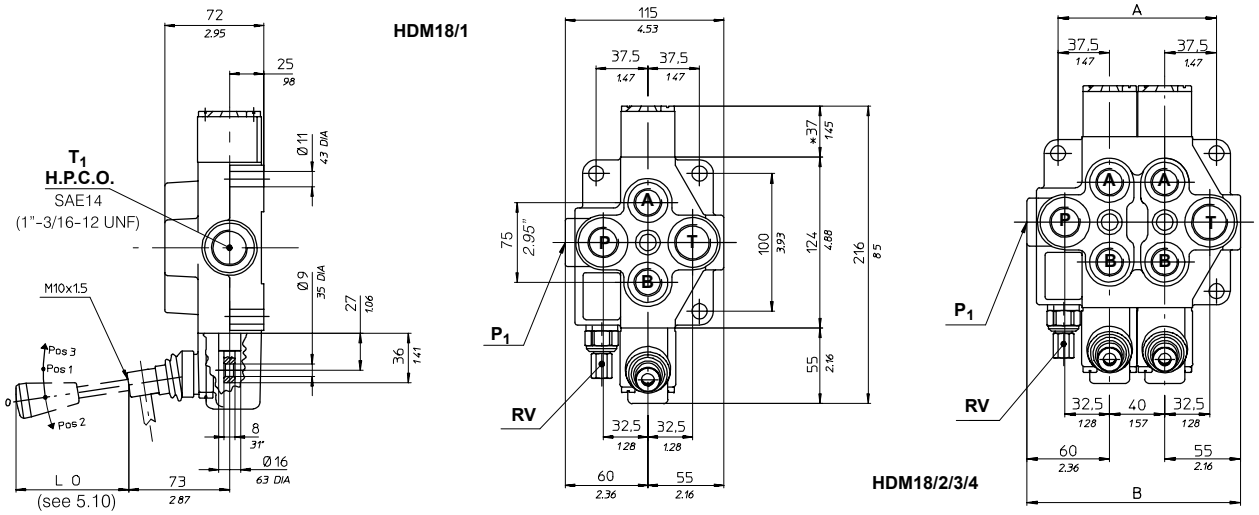


HDM18 Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(INDIVIDUAL LOAD CHECK ON EACH SPOOL)

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
071818001	HDM18/1K06-150/A133	1	70 LPM	18 US GPM	400 BAR	5700 PSI	7/8" UNO IN/WORK	$ 418.00
071828001	HDM18/2K06-150/AA133	2						$ 660.00
071838001	HDM18/3K06-150/AAA133	3					1-1/16" UNO TANK	$ 784.00
071848001	HDM18/4K06-150/AAAA133	4						$ 936.00



No. of Sections	HDM18/2	HDM18/3	HDM18/4
Dim. A	115	155	195
Dim. B	155	195	235

HDM18 Options and Accessories

Stock No.	Model Code	Description	List Price
768520140	Type 17	Detent Kit - 3 Position (17)	$ 44.00
768530040	Type 10	Detent Kit - 2 Position - Handle In (10)	$ 44.00
768530090	Type 20	Detent Kit - 2 Position - Handle Out (20)	$ 44.00
768640120	Type 136	4th Position Float Spool Kit (Not available as a spare part)	$ 84.00
651476011	Type Z	4th Position Float Spool (Not available as a spare part)	$ 84.00
651419010	Type G	Single Acting Spool (Not available as a spare part)	$ 41.00
651407010	Type C	Motor Spool (Not available as a spare part)	$ 67.50
SET-HDM18	SET-HDM18	Pre-set Relief Valve (Other than factory set 150 Bar)	$ 13.00
770000460	Code H.P.C.	Power beyond Sleeve - 7/8" UN O'Ring Port	$ 60.00
770000470	Code H.P.C.	Power beyond Sleeve - 1-1/16" UN O'Ring Port	$ 38.00
778000140	Code C.C.	Closed Centre Plug	$ 36.00
775930090	Type L133	'Plus' Axis Joystick Kit (per Joystick Assembly)	$ 251.00
770000530		M/F Adaptor 1-3/16" - 1-1/16" UN O'Ring	$ 29.00
778400140		No Relief Valve Kit	$ 28.00
760900010	Type L102	Cable Connector Kit	$ 66.00
768650110	Code 24	Hydraulic/Pneumatic Pilot Kit (per Spool)	$ 306.00
768650190	Code 50	Hydraulic Proportional Control	$ 251.00

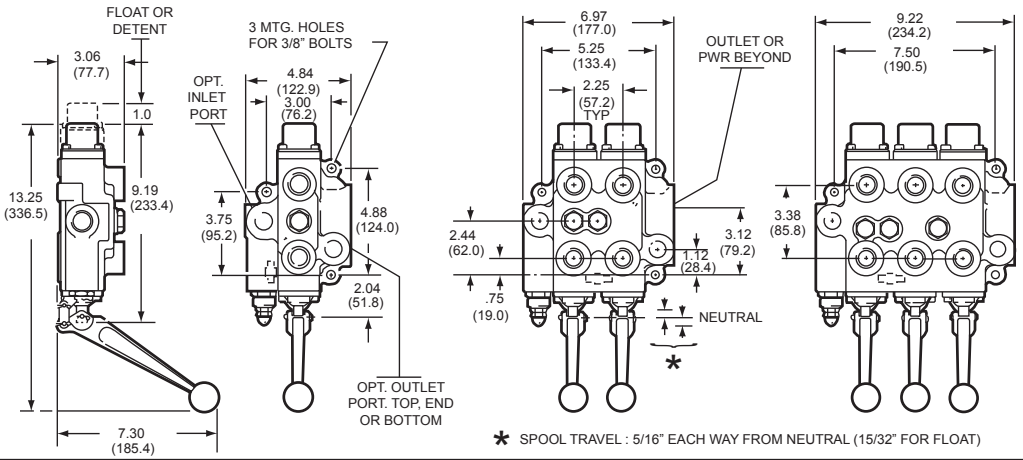
B Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(INDIVIDUAL LOAD CHECK ON EACH SPOOL)

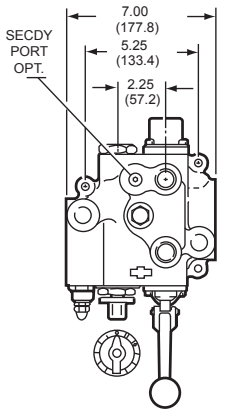
Stock No.	Model Code	Special Features	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
131144	BA11AG3TDO	No HPCO Fitted	1	114 LPM	30 US GPM	206 BAR	3000 PSI	1-1/16" UN O'Ring	$ 647.00
131022	BA11AG2TDO	HPCO Fitted	1						$ 712.00
133276	BA13AG3TDO	Single Acting	1						$ 750.00
134885	BA1AXG3TDO	Float Spool	1						$ 800.00
120827	BC1AG3T1DO	Flow Control	1						$ 965.00
136313	BA211AAG3TDO		2						$ 999.00
143559	BA2A1XAG3TDO	1st Spool Float	2						$ 1099.00
145761	BA3111AAAG3TDO		3						$ 1250.00
150350	BA3A11XAAG3TDO	1st Spool Float	3						$ 1350.00

BA VALVE



* SPOOL TRAVEL : 5/16" EACH WAY FROM NEUTRAL (15/32" FOR FLOAT)

BC VALVE



Cross B Style Options and Accessories

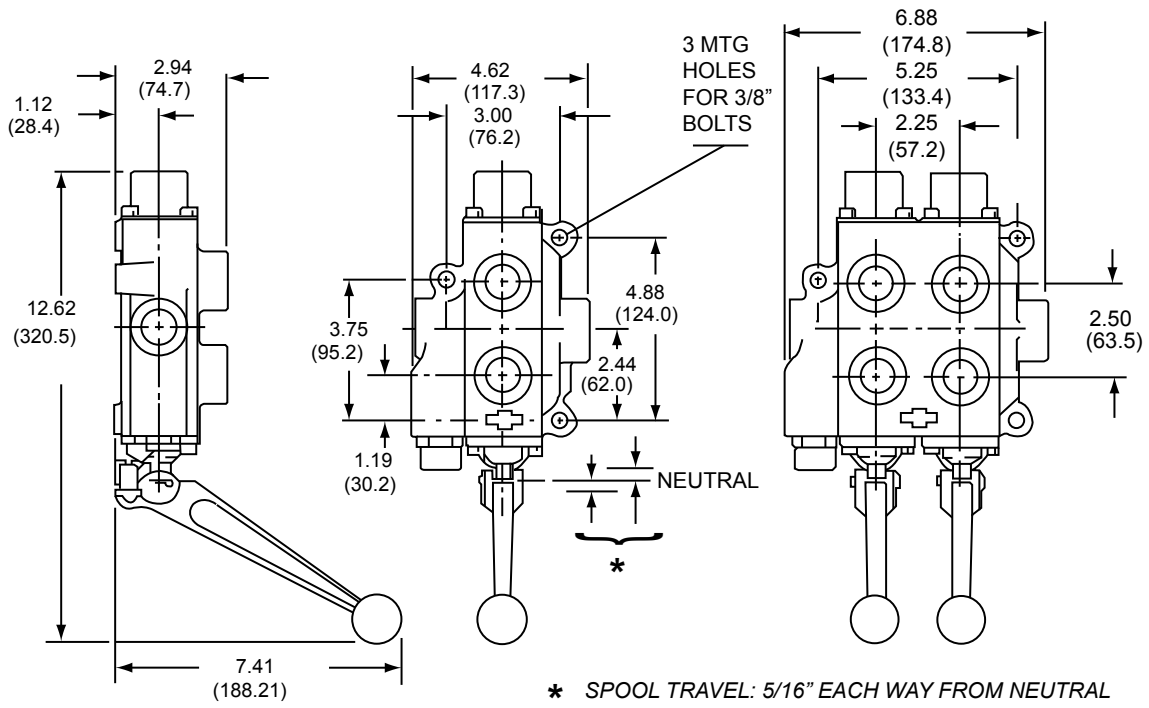
Stock No.	Model Code	Description	List Price
1V0294	Code B	Detent Kit - 3 Position	$ 100.00
1V0557	Code M	Detent Kit - 2 Position with Spring Centring	$ 200.00
1V0558	Code N	Detent Kit - 2 Position - Handle In	$ 200.00
1V0559	Code P	Detent Kit - 2 Position - Handle Out	$ 200.00
1V0640	Code E	Pressure Release Detent Kit - Handle In	$ 220.00
1V0096	Type 3	Single Acting Spool (Not available as a spare part)	$ 173.00
1V0092	Type 5	Motor Spool (Not available as a spare part)	$ 173.00
SET-CROSSB	SET-CROSSB	Pre-set Relief Valve (Other than factory set 140 Bar)	$ 17.00
1V0249	Code 2	Power Beyond Sleeve - 1-1/16" Un O'Ring	$ 75.00
1V0208	Code 1	Power Beyond Sleeve - 3/4" NPT	$ 75.00
1V0206	Code 5	Closed Centre Plug	$ 59.00
1R0035		No Relief Valve Plug	$ 36.00
1V1626		All Steel Handle Kit	$ 180.00
191743		Cable Connector Kit	$ 93.00
CHAPNUB		Hydraulic/Pneumatic Pilot Kit (per Spool)	$ 266.00

C Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(NO LOAD CHECK)

Stock No.	Model Code	Special Features	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
100156	CA11AGAO	No Power Beyond	1	95 LPM	25 US GPM	172 BAR	2500 PSI	1/2" NPT work 3/4" NPT in/out	$ 350.00
100184	CA11AGDO	No Power Beyond	1					3/4" UN work 7/8" UN in/out	$ 350.00
108425	CD11EGDO	Log-Splitter Valve	1					3/4" UN work 7/8" UN in/out	$ 490.00
104153	CA211AAGAO	No Power Beyond	2					1/2" NPT work 3/4" NPT in/out	$ 900.00
104153A	CD213FFGAO	Auto Cycle Valve	2					1/2" NPT work 3/4" NPT in/out	$ 1050.00
103980	CV-CONVERTA	D/A - S/A Conversion	1					1/2" NPT work 3/4" NPT in/out	$ 350.00



* *SPOOL TRAVEL: 5/16" EACH WAY FROM NEUTRAL*

Cross C Style Options and Accessories

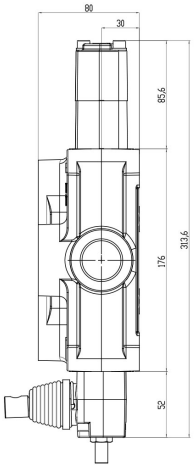
Stock No.	Model Code	Description	List Price
1V0294	Code B	Detent Kit - 3 Position	$100.00
1V0560	Code M	Detent Kit - 2 Position with Spring Centring	$ 200.00
1V0561	Code N	Detent Kit - 2 Position - Handle In	$ 200.00
1V0562	Code P	Detent Kit - 2 Position - Handle Out	$ 200.00
1V0640	Code E	Pressure Release Detent Kit - Handle In	$ 220.00
1V0006	Type 3	Single Acting Spool (Not available as a spare part)	$ 163.00
1V0005	Type 5	Motor Spool (Not available as a spare part)	$ 163.00
1V0007	Type 2	Closed Centre D/A Spool (Not available as a spare part)	$ 163.00
SET-CROSSC	SET-CROSSC	Pre-set Relief Valve (Other than factory set 150 Bar)	$ 17.00
1V1628		All Steel Handle Kit	$ 180.00
191743		Cable Connector Kit	$ 93.00
CHAPNUB		Hydraulic/Pneumatic Pilot Kit (per Spool)	$ 266.00

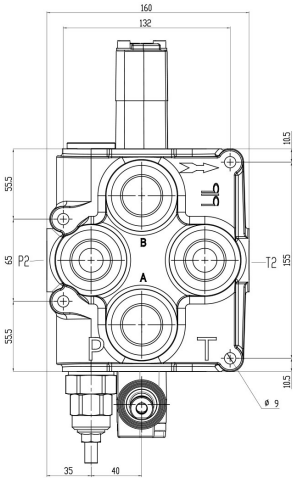
BM180 Monoblock Valves

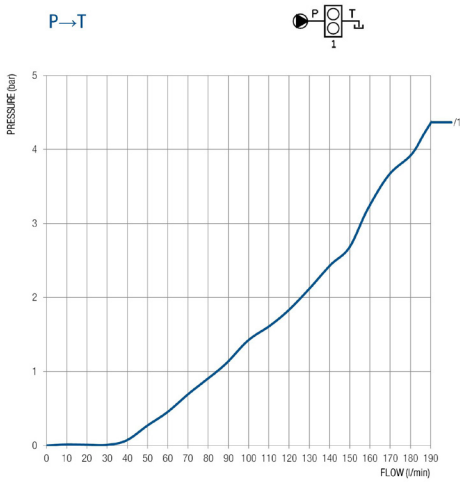
Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred
(SINGLE SPOOL ONLY - LOAD CHECK ON INLET)

Recommended Maximum Flow		Recommended Maximum Pressure	
170 LPM	45 US GPM	250 BAR	3600 PSI

Stock No.	Model Code	Description	Port Size	List Price
BM1801103A1M1	BM1801GUMOA1	Double Acting Cylinder Spool, Manual, Spring Return	P,A,B,T = 1" BSPP	$ 650.00
BM1801103A1P1N	BM1801GUMOP1	Double Acting Cylinder Spool, Pnuematic Pilot		$ 1200.00







BM180 Options and Accessories

Stock No.	Model Code	Description	List Price
BM180HPCO	HPCO	Power Beyond Sleeve	$ 60.00

LS & RD5 Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

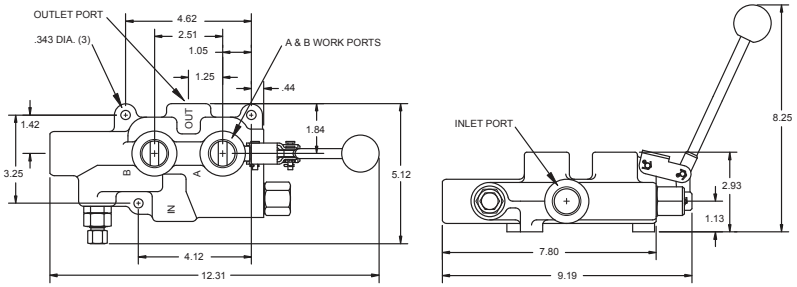
(NO LOAD CHECK)

Stock No.	Model Code	Special Features	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
LS300001	Log Splitter	-	1	95 LPM	25 US GPM	172 BAR	2500 PSI	1/2" NPT work 3/4" NPT in/out	$ 395.00
LSR30603	Log Splitter	Regen	1						$ 316.00
RD523MMEE5 A1A1		Auto Cycle	2						$ 1060.00

MODEL LS3000 DIMENSIONAL DATA

STANDARD FEATURES
- Hydraulically balanced, hard chrome plated spool
- Handle can be installed in 'up' or 'down' position
- Detent release pressure adjustable from 1000 to 2000 PSI
- For use with system flows up to 25 GPM
- Relief valve adjustable up to 2750 PSI
- Tandem centre spool (in neutral position, both work ports blocked, pump unloaded to tank)
- Ideal for log-splitter applications. Available with 3/4" NPTF work ports for higher flow applications

SPECIFICATIONS
1. Max design and test pressure 2750 PSI
2. Max tank port pressure 150 PSI
3. Flow rating 25 GPM max.
4. Relief valve setting 2250 PSI
5. This valve has one position pressure release detent with spring centre to neutral.
6. Weight 10 lbs
7. Recommended filtration ISO 4406 19/17/14
8. Max operation temperature 180°F
9. In exposed environments do not mount with spool vertical and handle end down.



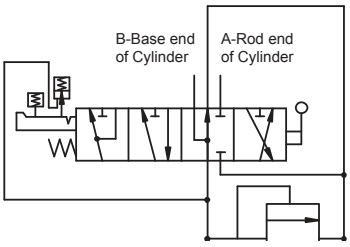
On LS-3000 Models, pressure release detent is in the spool out position. On LS-3060 Models, pressure release detent is in the spool in position.

MODEL LSR-3060 RAPID EXTEND LOG SPLITTER VALVE

STANDARD FEATURES
- Hydraulically balanced, hard chrome plated spool
- Handle can be installed in 'up' or 'down' position
- Extend flows of up to 25 GPM with inlet flows of 4 GPM
- Relief valve adjustable up to 3500 PSI
- Tandem centre spool
- Manual shift from high speed mode to high force mode
- Spring centre position 4 position spool with soft stop
- Pressure release detent on retract

SPECIFICATIONS
1. Max design and test pressure 3500 PSI
2. Max tank port pressure 150 PSI
3. Nominal inlet flow rating 4 GPM
4. Relief valve setting 2250 PSI
5. This valve has a pressure release detent from spool in w/ spring centre to neutral
6. The valve has a 4 position spool with normal extend and retract positions and a 4th rapid extend position
7. Max operation temperature 180°F
8. In exposed environments, do not mount with spool in the vertical position.
9. Dimensionally similar to the LS3000 valve

FUNCTION:
The Prince LSR-3060-3 log splitter valve features an extremely fast 'Rapid Extend' high speed mode. The LSR has been specifically designed to reduce system costs by allowing a single stage pump to be used in systems currently using two stage (hi-low) pumps. When extra splitting force is required, the LSR allows the user to manually shift from high speed mode to high force mode. A 'soft stop' differentiates between high force and high speed modes. Laboratory testing has not shown a significant difference in working cycle times between single stage/rapid extend systems and two stage systems. (Working cycle is the average time between extending the cylinder to split the first log and extending to split the next log after the split wood has been removed and a new log has been place on the log splitter.)

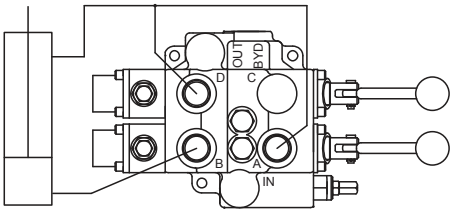


MODEL RD-5000 2 SPOOL SPECIAL APPLICATION VALVE

"AUTO-CYCLE" TWO SPOOL VALVE

This valve is a modified RD-5200 two spool valve that can be used to automatically cycle a hydraulic cylinder. The spools and the valve body have been modified to provide this function. Both spools have the pressure release detent spool attachment. The valve shown is connected to a cylinder in the sketch. The 'B' port is connected to the base of the cylinder. The 'A' and 'D' ports are tied together and connected to the rod end of the cylinder. The 'C' port is plugged. At the beginning of the cycle the cylinder is fully retracted. To begin the cycle both handles are pulled back. Oil is directed to the 'B' port and the cylinder will extend until it reaches the end of its stroke. At this point the pressure will build to the detent release pressure and the first spool will centre to neutral. Now the oil will go through the open centre core to the second spool and is directed out the 'D' port to retract the cylinder. When the cylinder reaches the full retract position the pressure will build to the detent release pressure and the second spool will centre to neutral. This completes the cycle. To begin the next cycle both handles are again manually pulled back. Please note this valve does not have the loadcheck feature of the standard RD5200 valve. Also the 'B' port is open to tank in neutral.

Model Number RD523MMEE5A1A1

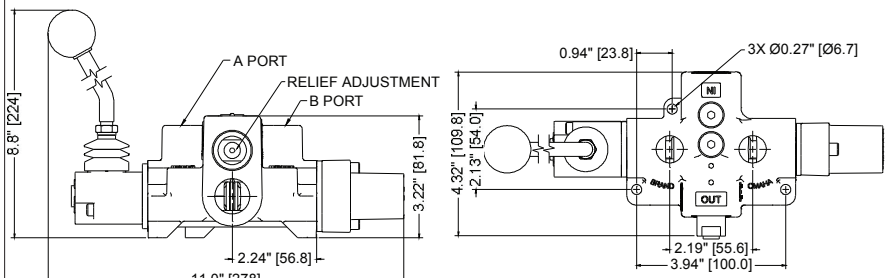


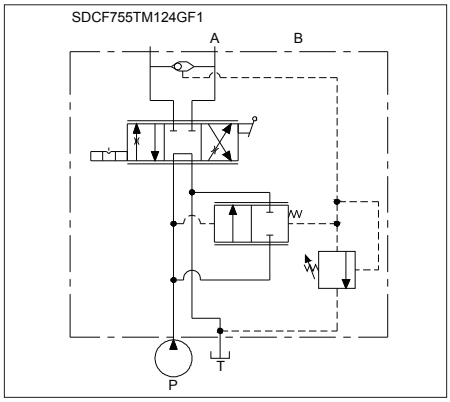
SDCF & DCF Monoblock Valves

Monoblock Directional Flow Control Valve
Standard Double Acting - Pressure Compensated

Stock No.	Special Features	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
SDCF755TM64LS	Spring Centre	1	68 LPM	18 US GPM	207 BAR	3000 PSI	1/2" NPT work 3/4" NPT in/out	$ 630.00
SDCF755TM124LS	Spring Centre	1						$ 519.00
SDCF755TM124LF1	Friction	1						$ 670.00
SDCF120TM124GS	Spring Centre	1					7/8" UN work 1-1/16" UN in/out	$ 630.00
SDCF120TM184GS	Spring Centre	1						$ 519.00
SDCF120TM184GF1	Friction	1						$ 562.00

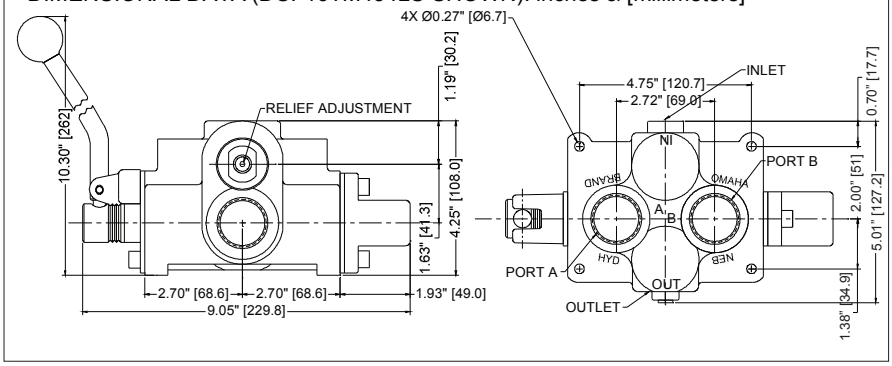
DIMENSIONAL DATA (SDCF755TM124GF1 SHOWN): inches & [millimeters]

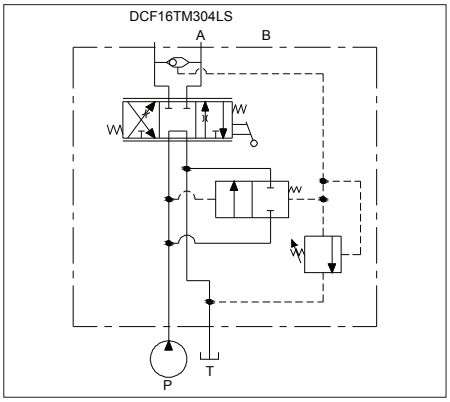




Stock No.	Special Features	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
DCF16TM304LS	Spring Centre	1	170 LPM	45 US GPM	207 BAR	3000 PSI	1-1/16" UN work 1-1/16" UN in/out	$ 767.00
DCF16TM454LF1	Friction	1						$ 950.00
DCF16TM304LF1	Friction	1						$ 950.00

DIMENSIONAL DATA (DCF16TM454LS SHOWN): inches & [millimeters]





SDCF / DCF Options and Accessories

Stock No.	Model Code	Description	Add To List Price
SDCFH	H	Rotary Handle	$ 10.00
SDCFE	E	Rotary Friction Detent	$ 88.00
SDCFF1	F1	Friction Detent	$ 43.00
DCFH	H	Rotary Handle	$ 10.00
DCFE	E	Rotary Friction Detent	$ 88.00
DCFF1	F1	Friction Detent	$ 43.00
DCFP	P	Pilot Operated	$ 98.00

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OIL SOLUTIONS

VDM07 Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

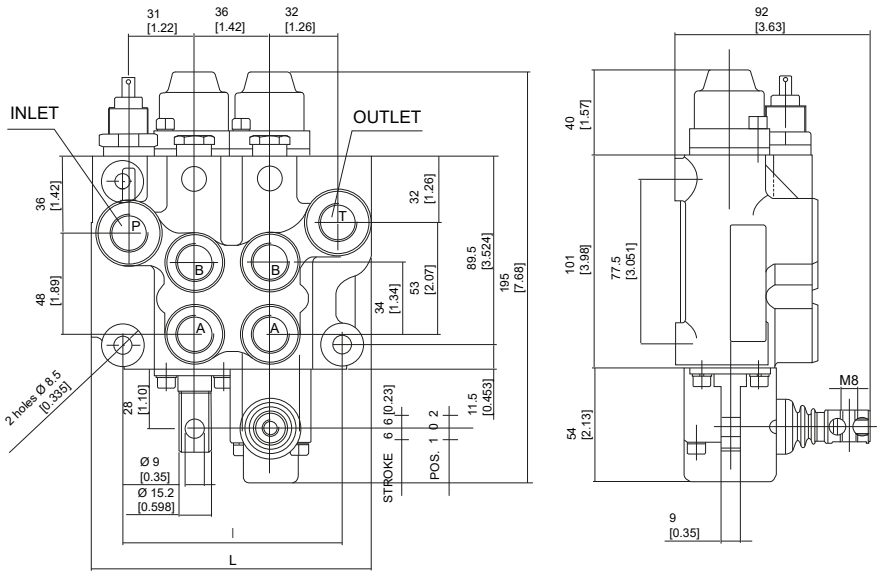
(COMMON LOAD CHECK ON INLET)

Recommended Maximum Flow		Recommended Maximum Pressure	
50 LPM	13 US GPM	280 BAR	4000 PSI

Stock No.	Model Code	No. Of Spools	Port Size	List Price
VDM07DU4S	VDM0701D2001XP01ANLAC2U4S	1	3/4" UNO (SAE 8)	$ 273.00
VDM07DDU4S	VDM0701D2002XP01ANLAC2U4S	2		$ 480.00
VDM07DDDU4S	VDM0701D2003XP01ANLAC2U4S	3		$ 580.00
VDM07DDDDU4S	VDM0701D2004XP01ANLAC2U4S	4		$ 717.00
VDM07DDDDDU4S	VDM0701D2005XP01ANLAC2U4S	5		$ 909.00
VDM07DDDDDDU4S	VDM0701D2006XP01ANLAC2U4S	6		$ 1092.00

Ports	P	T	A-B
BSP ISO 228	3/8"	3/8"	3/8"
Metric ISO 6149	M18 x 1.5	M18 x 1.5	M18 x 1.5
SAE ISO 725	3/4 - 16 UNF	3/4 - 16 UNF	3/4 - 16 UNF

Spools		1	2	3	4	5	6
I	mm	68	104	140	176	212	248
	in.	2.67	4.09	5.51	6.92	8.34	9.76
L	mm	96.5	132.5	168.5	204.5	240.5	276.5
	in.	3.79	5.21	6.63	8.05	9.46	10.89
M	kg	2.8	4.5	6.3	8	9.7	11.4
	lb	6.16	9.9	13.86	17.6	21.34	25.08



VDM07 Options and Accessories

Stock No.	Model Code	Description	List Price
R20282860	12ASLF5	Float Spool OUT and 4th Position Detent Kit	$ 134.00
R23500300	R2	Detent Kit 3 Position Handle IN & OUT with Spring Return	$ 90.00
R23500400	R4	Detent Kit 3 Position Handle IN with Spring Return	$ 90.00
R23500500	R5	Detent Kit 3 Position Handle OUT with Spring Return	$ 90.00
R20290180	LA	Lever Rod 180mm M8	$ 25.00
R20280200	5S	HPCO Sleeve 7/8" UNO (SAE10)	$ 28.00
R20170210	D (76 - 150 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 64.00
R20170220	D (151 - 220 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 64.00
R20170230	D (221 - 300 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 64.00
R20170060	W	Main Relief Valve Cavity Plug	$ 32.00
R20272590		Spool Seal Kit	$ 25.00

VDM09 Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

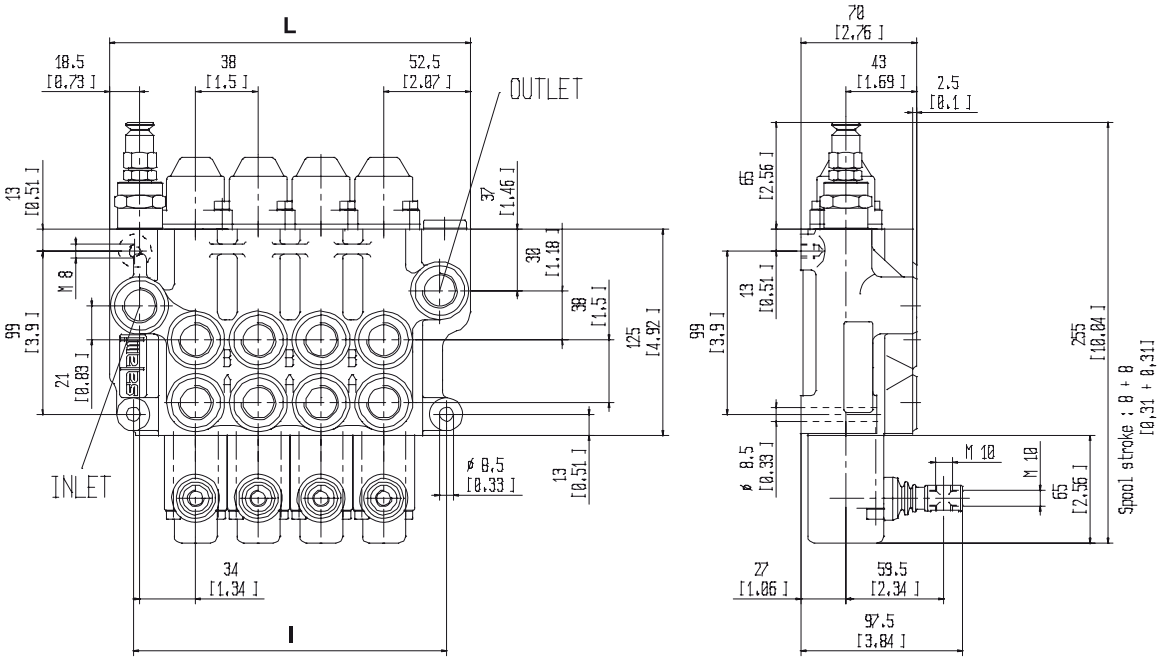
(COMMON LOAD CHECK ON INLET)

Recommended Maximum Flow		Recommended Maximum Pressure	
75 LPM	20 US GPM	280 BAR	4000 PSI

Stock No.	Model Code	No. Of Spools	Port Size	List Price
VDM091DU4G	VDM0901D2001XP01ANLAC2U4G	1	1/2" BSPP	$ 500.00
VDM092DDU4G	VDM0901D2002XP01ANLAC2U4G	2		$ 850.00
VDM093DDDU4G	VDM0901D2003XP01ANLAC2U4G	3		$ 996.00
VDM094DDDDU4G	VDM0901D2004XP01ANLAC2U4G	4		$ 985.00
VDM095DDDDDU4G	VDM0901D2005XP01ANLAC2U4G	5		$ 1195.00
VDM096DDDDDDU4G	VDM0901D2006XP01ANLAC2U4G	6		$ 1469.00

Ports	P	T	A-B
BSP ISO 228	1/2"	1/2"	1/2"
*Metric ISO 6149	M22 x 1.5	M22 x 1.5	M22 x 1.5
SAE ISO 725	7/8 - 16 UNF	7/8 - 16 UNF	7/8 - 16 UNF
*Available on Request			

Spools		1	2	3	4	5	6
I	mm	76	114	152	190	228	266
	in.	2.90	4.48	5.98	7.48	8.98	10.47
L	mm	105	143	181	219	257	295
	in.	4.13	5.62	7.12	8.62	10.12	11.61
M	kg	4.2	6.5	8.9	11.3	13.7	16.1
	lb	9.24	14.3	19.58	24.86	30.14	35.42



VDM09 Options and Accessories

Stock No.	Model Code	Description	List Price
R21900300	R2	Detent Kit 3 Position Handle IN & OUT with Spring Return	$ 128.00
R21900400	R4	Detent Kit 3 Position Handle IN with Spring Return	$ 128.00
R21900500	R5	Detent Kit 3 Position Handle OUT with Spring Return	$ 128.00
421987800	LA	Lever Rod 240mm M10	$ 25.00
R21980070	5G	HPCO Sleeve 7/8" UNO (SAE10)	$ 44.00
R21370041	D (40 - 140 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 81.00
R21370011	D (141 - 280 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 81.00
R21970110	W	Main Relief Valve Cavity Plug	$ 40.00
R21972640		Spool Seal Kit	$ 100.00

VDM6A Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

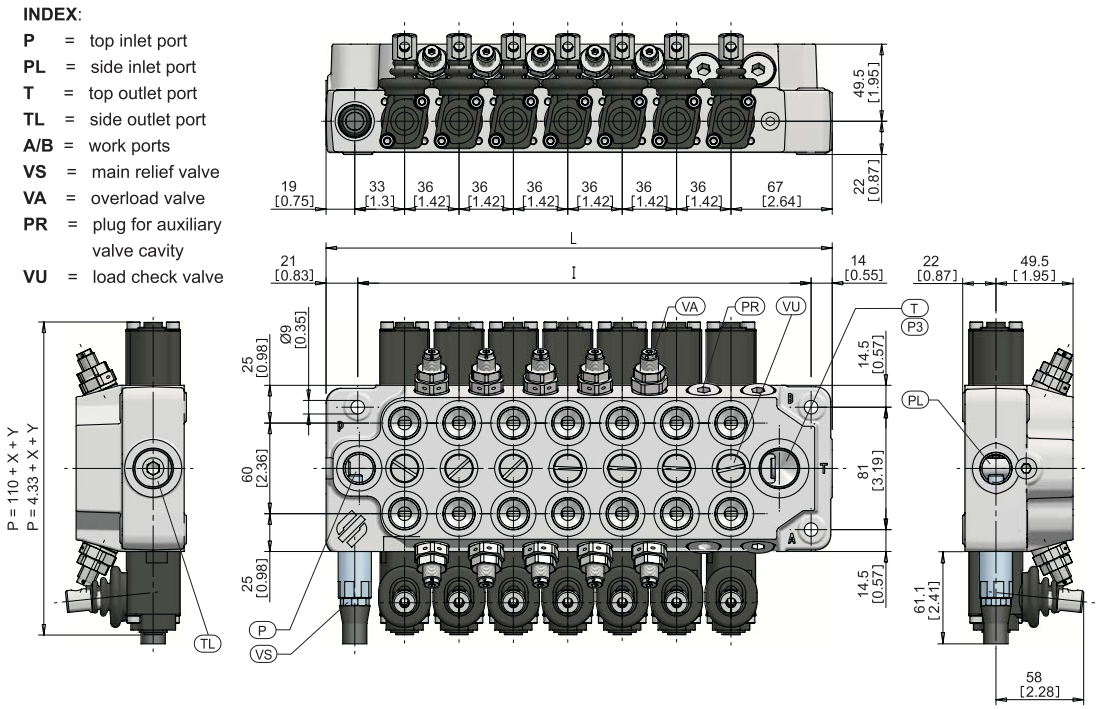
(INDIVIDUAL LOAD CHECK ON SPOOL SECTION AND ADJUSTABLE SERVICE PORT RELIEFS)

Recommended Maximum Flow		Recommended Maximum Pressure	
50 LPM	13 US GPM	350 BAR	5000 PSI

Stock No.	Model Code	No. Of Spools	Port Size	List Price
VDM6A1003	VDM6A02D1751XP01APRAPRBNLAC2U4G	1	P, A, B = 3/8" BSPP T = 1/2" BSPP	$ 357.00
VDM6A2003	VDM6A02D1752XP01APRAPRBNLAC2U4G	2		$ 538.00
VDM6A3003	VDM6A02D1753XP01APRAPRBNLAC2U4G	3		$ 724.00
VDM6A4003	VDM6A01D1754XP01APRAPRBNLAC2U4G	4		$ 895.00
VDM6A5003	VDM6A01D1755XP01APRAPRBNLAC2U4G	5		$ 1084.00
VDM6A6003	VDM6A01D1756XP01APRAPRBNLAC2U4G	6		$ 1310.00
VDM6A7003	VDM6A01D2007XP01APRAPRBNLAC2U1G	7		$ 1600.00
VDM6A1003OS	VDM6A02D2101XP01APRAPRBNLAC2U4GOS	1	P, A, B, T = 1/2" BSPP	$ 357.00
VDM6A2003OS	VDM6A02D2102XP01APRAPRBNLAC2U4GOS	2		$ 538.00
VDM6A3003OS	VDM6A02D2103XP01APRAPRBNLAC2U4GOS	3		$ 724.00
VDM6A4003OS	VDM6A02D2104XP01APRAPRBNLAC2U4GOS	4		$ 895.00
VDM6A5003OS	VDM6A02D2105XP01APRAPRBNLAC2U4GOS	5		$ 1084.00
VDM6A6003OS	VDM6A02D2106XP01APRAPRBNLAC2U4GOS	6		$ 1310.00
VDM6A7003OS	VDM6A02D2107XP01APRAPRBNLAC2U4GOS	7		$ 1600.00

INDEX:

P = top inlet port
PL = side inlet port
T = top outlet port
TL = side outlet port
A/B = work ports
VS = main relief valve
VA = overload valve
PR = plug for auxiliary valve cavity
VU = load check valve



Ports	P-PL-P3-TS	T-TL	A-B
BSP ISO 228	G 3/8	G 1/2	G 3/8
SAE ISO 176	SAE #8 3/4 - 16 UNF	SAE #10 7/8 - 14 UNF	SAE #8 3/4 - 16 UNF
ISO 262 - ISO 6149	M18 x 1.5	M22 x 1.5	M18 x 1.5
BSPF JIS B 2351	G 3/8	G 1/2	G 3/8

Spools		1	2	3	4	5	6	7
I	mm	84	120	156	192	228	264	300
	in.	3.31	4.72	6.14	7.56	8.98	10.39	11.81
L	mm	119	155	191	227	263	299	335
	in.	4.68	6.10	7.52	8.94	10.35	11.77	13.19

VDM6A Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(INDIVIDUAL LOAD CHECK ON SPOOL SECTION AND ADJUSTABLE SERVICE PORT RELIEFS)

VDM6A Options and Accessories

Stock No.	Model Code	Description	List Price
R25080010	12ASLF5	Float Spool OUT and 4th Position Detent Kit	$ 226.00
R25001032	01AESE7	DA Electric with Emergency Lever 12V 31W	$ 580.00
R25001033	01AESE8	DA Electric with Emergency Lever 24V 31W	$ 580.00
R23400221	C2H	Spring Centre Kit >250BAR	$50.00
R23400320	R2	Detent Kit 3 Position Handle IN & OUT with Spring Return	$ 91.00
R23400280	R4	Detent Kit 3 Position Handle IN with Spring Return	$ 91.00
R23400250	R5	Detent Kit 3 Position Handle OUT with Spring Return	$ 91.00
R23400319	R6	Detent Kit 2 Position Handle OUT	$ 102.00
R23400290	R7	Detent Kit 2 Position Handle IN	$ 102.00
R23400321	R9	Detent Kit 3 Position Handle IN/0/OUT	$ 84.00
R23400010	IP	Hydraulic Pilot Proportional 1/4" BSPP	$ 159.00
325031308	IPS	DA Spool for Hydraulic Pilot	$ 80.00
R23400100	PP	Pneumatic Pilot Proportional 1/8"BSPP	$ 209.00
R23400033	L1-L2	Plus Axis Joystick	$ 199.00
R23400060	NL	Lever Box Assy	$ 80.00
R20192000	LA	Lever Rod 160mm M8	$ 12.00
R23400211		Spool Seal Kit	$ 30.00
R20270430	D (51-75 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 75.00
R20270440	D (76-150 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 75.00
R20270450	D (151-220 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 75.00
R20270460	D (221-330 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 75.00
R20270463	D (301-375 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 75.00
R20270471	W	Main Relief Cavity Plug	$ 25.00
795428300	5	HPCO Plug	$ 25.00
R23400500	PR	Service Port Relief Cavity Plug	$ 21.00
R25000650	VR	Service Port Anti-Cavitation Valve	$ 41.00
R25000611	VA (20 -70 BAR)	Service Port Relief Cartridge	$ 72.00
R25000621	VA (71-130 BAR)	Service Port Relief Cartridge	$ 72.00
R25000631	VA (131-205 BAR)	Service Port Relief Cartridge	$ 72.00
R25000641	VA (206 -330 BAR)	Service Port Relief Cartridge	$ 72.00
R25001811	AR (50 - 90 BAR)	Service Port Relief & Anti-Cavitation Cartridge	$ 117.00
R25001821	AR (91 - 130 BAR)	Service Port Relief & Anti-Cavitation Cartridge	$ 117.00
R25001831	AR (131 - 205 BAR)	Service Port Relief & Anti-Cavitation Cartridge	$ 117.00
R25001841	AR (206 - 275 BAR)	Service Port Relief & Anti-Cavitation Cartridge	$ 117.00

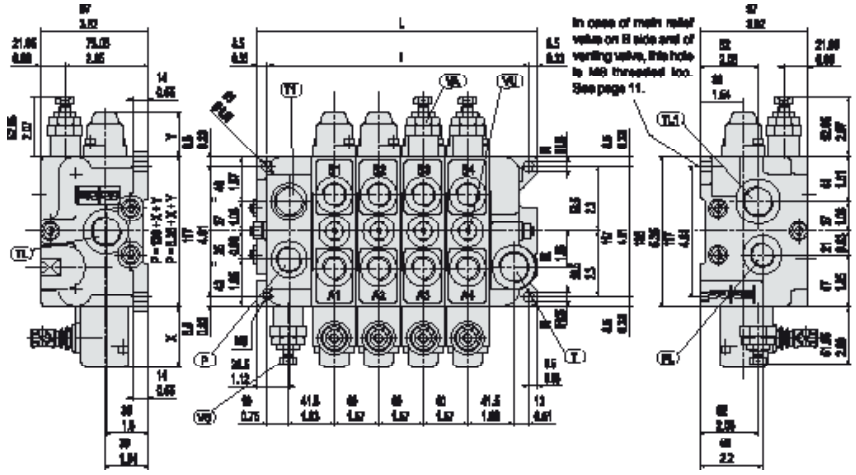
VDM8 Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(INDIVIDUAL LOAD CHECK ON SPOOL SECTION AND NOT ADJUSTABLE SERVICE PORT RELIEFS)

Recommended Maximum Flow		Recommended Maximum Pressure	
90 LPM	24 US GPM	350 BAR	5000 PSI

Stock No.	Model Code	No. Of Spools	Port Size	List Price
VDM81001OS	VDM801D2001XP01ANLAC2U4G3/4	1	3/4" BSPP	$ 452.00
VDM81001	VDM801D2001XP01ANLAC2U4G	1	P, A, B, = 1/2" BSPP T = 3/4" BSPP	$ 452.00
VDM82001	VDM0801D2002XP01APRAPRBNLAC2U4G	2		$ 728.00
VDM83001	VDM0801D2003XP01APRAPRBNLAC2U4G	3		$ 996.00
VDM84001	VDM0801D2004XP01APRAPRBNLAC2U4G	4		$ 1258.00
VDM85001	VDM0801D2005XP01APRAPRBNLAC2U4G	5		$ 1526.00

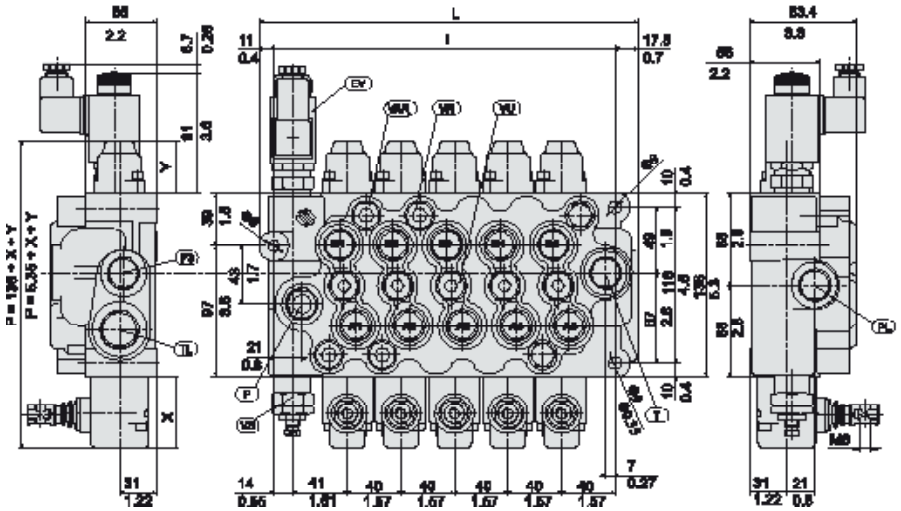


INDEX:
- P = top inlet port
- PL = side inlet port
- T = top outlet port
- TL = side outlet port
- T1 = top outlet port*
- TL1 = side outlet port*
- A/B = work ports
- VS = main relief valve(adjustable)
- VA = overload valve
- VU = load check valve

*Only in case of inlet and outlet first module the end module is closed

Ports	P-PL-P3	T-TL	A-B
BSP ISO 228	G 1/2	G 3/4	G 1/2
SAE ISO 176	SAE #10 7/8 - 14 UNF	SAE #12 1-1/16 - 12 UNF	SAE #10 7/8 - 14 UNF
ISO 262 - ISO 6149	M22 x 1.5	M27 x 2	M22 x 1.5

Spools		1	2	3	4	5
I	mm	-	135	175	215	255
	in.	-	5.31	6.89	8.46	10.03
L	mm	-	163.5	203.5	243.5	283.5
	in.	-	6.43	8.01	9.59	11.16



INDEX:
- P = top inlet port
- PL = side inlet port
- P3 = side outlet port for power beyond
- T = top outlet port
- TL = side outlet port
- A/B = work ports
- VS = main relief valve(adjustable)
- EV1 = venting valve 12 V normally open
- EV2 = venting valve 24 V normally open
- EV3 = venting valve 12 V normally closed
- EV4 = venting valve 24 V normally closed
- VAR = overload and anti-cavitation valve
- VR = anti-cavitation valve
- VU = load check valve

VDM8 Monoblock Valves

Monoblock Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred

(INDIVIDUAL LOAD CHECK ON SPOOL SECTION AND NOT ADJUSTABLE SERVICE PORT RELIEFS)

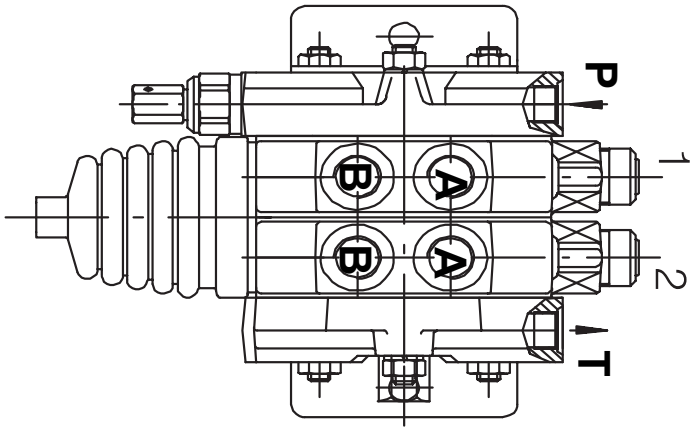
VDM8 Options and Accessories

Stock No.	Model Code	Description	List Price
R23576300	12ASLAF5	Float Spool OUT and 4th Position Detent Kit	$ 268.00
R23573048	01AESE1	DA Electric 12VDC with Emergency Lever	$ 911.00
R23573046	01AESE2	DA Electric 24VDC with Emergency Lever	$ 911.00
R23575070	C2H	Spring Centre Kit >250BAR	$ 120.00
R23500300	R2	Detent Kit 3 Position Handle IN & OUT with Spring Return	$ 90.00
R23500400	R4	Detent Kit 3 Position Handle IN with Spring Return	$ 90.00
R23500500	R5	Detent Kit 3 Position Handle OUT with Spring Return	$ 90.00
R23575420	R6	Detent Kit 2 Position Handle OUT	$ 106.00
R23575410	R7	Detent Kit 2 Position Handle IN	$ 106.00
R23575490	R9	Detent Kit 3 Position Handle IN/0/OUT	$ 90.00
R23575322	IP	Hydraulic Pilot Proportional 1/4" BSPP	$ 93.00
323511301	01A	Double Acting Cylinder Spool	$ 60.00
323511302	02A	Double Acting Motor Spool	$ 60.00
323511390	01AIP	Double Acting Cylinder Spool for Hydraulic Pilot IP	$ 60.00
323511391	02AIP	Double Acting Motor Spool suit Hydraulic Pilot IP	$ 60.00
R23575151	PP	Pneumatic Pilot Proportional 1/8"BSPP	$ 350.00
R20287910	NP	Lever Box Assy	$ 100.00
R20290180	LA	Lever Rod 180mm M8	$ 30.00
R23572590		Spool Seal Kit	$ 25.00
R23577590	D (56 - 130 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 100.00
R23577591	D (131 - 185 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 100.00
R23577600	D (186 - 250 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 100.00
796366700	P (10 - 400 BAR)	Pressure Relief and Anti-Cavitation Valve Piloted Type Cartridge	$ 197.00
R23577520	W	Main Relief Cavity Plug	$ 30.00
795429300	5	HPCO Plug	$ 11.00
R23200021	PR	Service Port Relief Cavity Plug	$ 19.00
R24177541	VR	Service Port Anti-Cavitation Valve	$ 34.00
R23277500	AR 25BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277510	AR 32BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277520	AR 40BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277530	AR 50BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277540	AR 63BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277550	AR 80BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277560	AR 100BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277570	AR 125BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277580	AR 140BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277590	AR 160BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277600	AR 175BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277610	AR 190BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277620	AR 210BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277630	AR 230BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277640	AR 250BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277650	AR 280BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277660	AR 315BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00
R23277670	AR 355BAR	Service Port Relief & Anti-Cavitation not Adjustable	$ 83.00

HDS11 Sectional Valves

Sectional Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred Assemblies

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
HDS11/1	HDS11/1	1	45 LPM	12 US GPM	320 BAR	4600 PSI	3/4" UNO	$ 494.00
HDS11/2	HDS11/2	2						$ 735.00
HDS11/3	HDS11/3	3						$ 979.00
HDS11/4	HDS11/4	4						$ 1212.00
HDS11/5	HDS11/5	5						$ 1450.00
HDS11/6	HDS11/6	6						$ 1690.00
HDS11/7	HDS11/7	7						$ 1929.00
HDS11/8	HDS11/8	8						$ 2169.00
HDS11/9	HDS11/9	9						$ 2407.00
HDS11/10	HDS11/10	10						$ 2647.00



HDS11 Options and Accessories

Stock No.	Model Code	Description	List Price
768520010	Type 3	Detent Kit - 3 Position	$ 60.00
768520050	Type 5	Detent Kit - 2 Position - Handle Out	$ 60.00
768530010	Type 2	Detent Kit - 2 Position - Spring Centred	$ 60.00
768540030	Type 04	4th Position Float Spool Kit (Not available as a spare part)	$ 120.00
651209010	Type G	Single Acting Spool (Not available as a spare part)	$ 40.00
651207010	Type C	Motor Spool (Not available as a spare part)	$ 40.00
SET-HDS11	SET-HDS11	Pre-set Relief Valve (Other than factory set 150 Bar)	$ 15.00
770000060		Power Beyond Sleeve (Carry-over)	$ 42.00
778300010		Closed Centre Plug	$ 31.00
775920060	Type L133	'Plus' Axis Joystick Kit (per Joystick Assembly)	$ 247.00
778400140		No Relief Valve Kit	$ 28.00
760900030	Type L102	Cable Connector Kit	$ 46.00
787400930	Type OA	Service Port, Relief Valve Cartridge	$ 69.00
787600930	Type C	Service Port, Anti-Cavitation Valve Cartridge	$ 42.00
787401270	Type UC	Service Port, Relief/Anti-Cavitation Valve Cartridge	$ 83.00
756200120	Type K90	Intermediate Press. Comp. Flow Regulator & Relief Valve	$ 479.00
677200420		Foot Bracket	$ 9.00

HDS11 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

HDS11 Inlet Sections

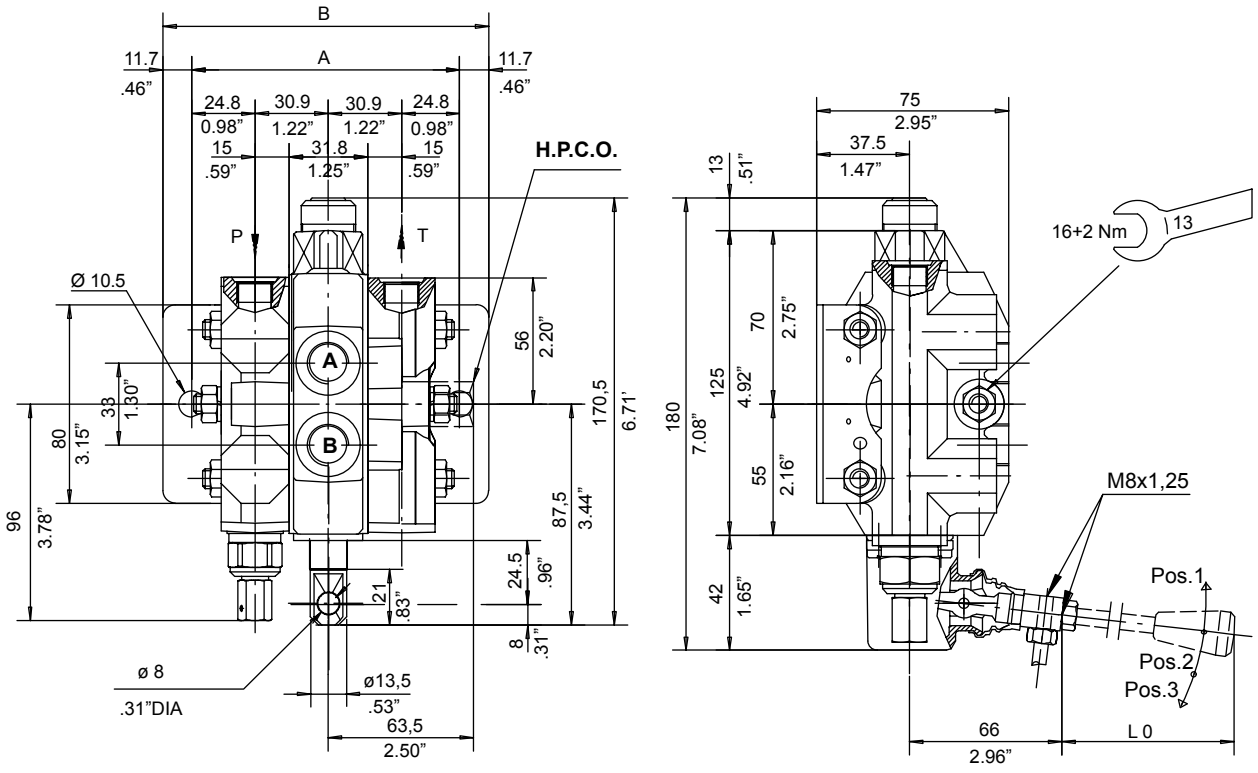
Stock No.	Model Code	Description	List Price
731070030	Code T07	'P' Port c/w Inlet Relief Valve	$ 163.00
731070020	Code T12	'P1 & T1' Ports c/w Inlet Relief Valve	$ 163.00

HDS11 Outlet Sections

Stock No.	Model Code	Description	List Price
630070010	Code P02	Open Centre c/w 'T' Port	$ 93.00
730070020	Code P07	Open Centre c/w 'T' Port and HPC	$ 132.00

HDS11 Body Sections

Stock No.	Model Code	Description	List Price
741270018	Code K02A01	Parallel - Double Acting	$ 240.00
741270035	Code K07A01	Parallel - Double Acting c/w Service Port Relief Cavities	$ 307.00
741270028	Code K12Z04	Parallel - Double Acting c/w 4th Position Float	$ 307.00
741270017	Code K202E01E	Parallel - Double Acting Electric	$ 586.00
741270023	Code K48A01	Tandem - Double Acting	$ 267.00
741270036	Code K53A01	Tandem - Double Acting c/w Service Port Relief Cavities	$ 334.00
741270024	Code K48X01	Tandem/Series - Double Acting	$ 334.00
741270050	Code K226ZE08E	Parallel - Double Acting c/w Float Electric	$ 680.00
741270107	Code K212AE01E	Parallel - Double Acting Electric c/w Cavities	$ 621.00
741270108	Code K253XE01E	Tandem/Series - Double Acting Electric	$ 685.00



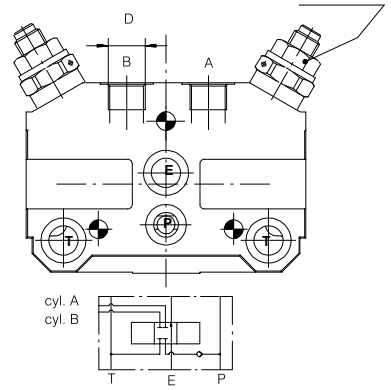
No. of Sections	1	2	3	4	5	6	7	8	9	10
Dim. A	111	143	174	206	238	270	302	333	365	397
Dim. B	133	165	197	228	260	292	324	356	387	419

HDS15 Sectional Valves

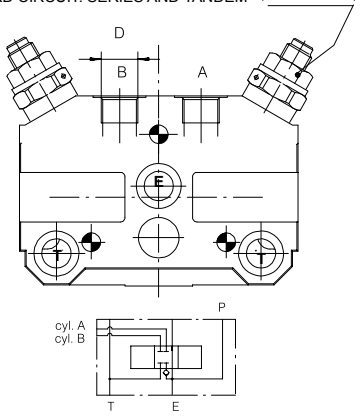
Sectional Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred Assemblies

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
HDS15/1	HDS15/1	1	60 LPM	15 US GPM	320 BAR	4600 PSI	7/8" UNO	$ 555.00
HDS15/2	HDS15/2	2						$ 807.00
HDS15/3	HDS15/3	3						$ 1061.00
HDS15/4	HDS15/4	4						$ 1312.00
HDS15/5	HDS15/5	5						$ 1565.00
HDS15/6	HDS15/6	6						$ 1817.00
HDS15/7	HDS15/7	7						$ 2071.00
HDS15/8	HDS15/8	8						$ 2322.00
HDS15/9	HDS15/9	9						$ 2575.00
HDS15/10	HDS15/10	10						$ 2827.00

STANDARD CIRCUIT: PARALLEL (UC - OA - C)



STANDARD CIRCUIT: SERIES AND TANDEM (UC - OA - C)



HDS15 Options and Accessories

Stock No.	Model Code	Description	List Price
768520140	Type 17	Detent Kit - 3 Position	$ 44.00
768530040	Type 10	Detent Kit - 2 Position - Handle In (10)	$ 44.00
768530090	Type 20	Detent Kit - 2 Position - Handle Out (20)	$ 44.00
768640120	Type 136	4th Position Float Spool Kit (Not available as a spare part)	$ 84.00
651409010	Type G	Single Acting Spool (Not available as a spare part)	$ 40.00
651407010	Type C	Motor Spool (Not available as a spare part)	$ 67.50
SET-HDS15	SET-HDS15	Pre-set Relief Valve (Other than factory set 150 Bar)	$ 15.00
775930090	Type L133	'Plus' Axis Joystick Kit (per Joystick Assembly)	$ 251.00
778400140		No Relief Valve Kit	$ 28.00
760900010	Type L102	Cable Connector Kit	$ 66.00
768650110	Code 24	Hydraulic/Pneumatic Pilot Kit (per spool)	$ 306.00
768650190	Code 50	Hydraulic Proportional Control	$ 251.00
787400950	Type OA	Service Port, Relief Valve Cartridge (0-130 Bar)	$ 84.00
787400960	Type OA	Service Port, Relief Valve Cartridge (130-350 Bar)	$ 84.00
787601430	Type C	Service Port, Anti-Cavitation Valve Cartridge	$ 42.00
787401310	Type UC	Service Port, Relief/Anti-Cavitation Valve Cartridge (0-130 Bar)	$ 113.00
787401321	Type UC	Service Port, Relief/Anti-Cavitation Valve Cartridge (130-350 Bar)	$ 113.00
778400050		Blanking Plug - UC & OA Cavities	$ 15.00
677200570		Foot Bracket	$ 10.00

HDS15 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

HDS15 Inlet Sections

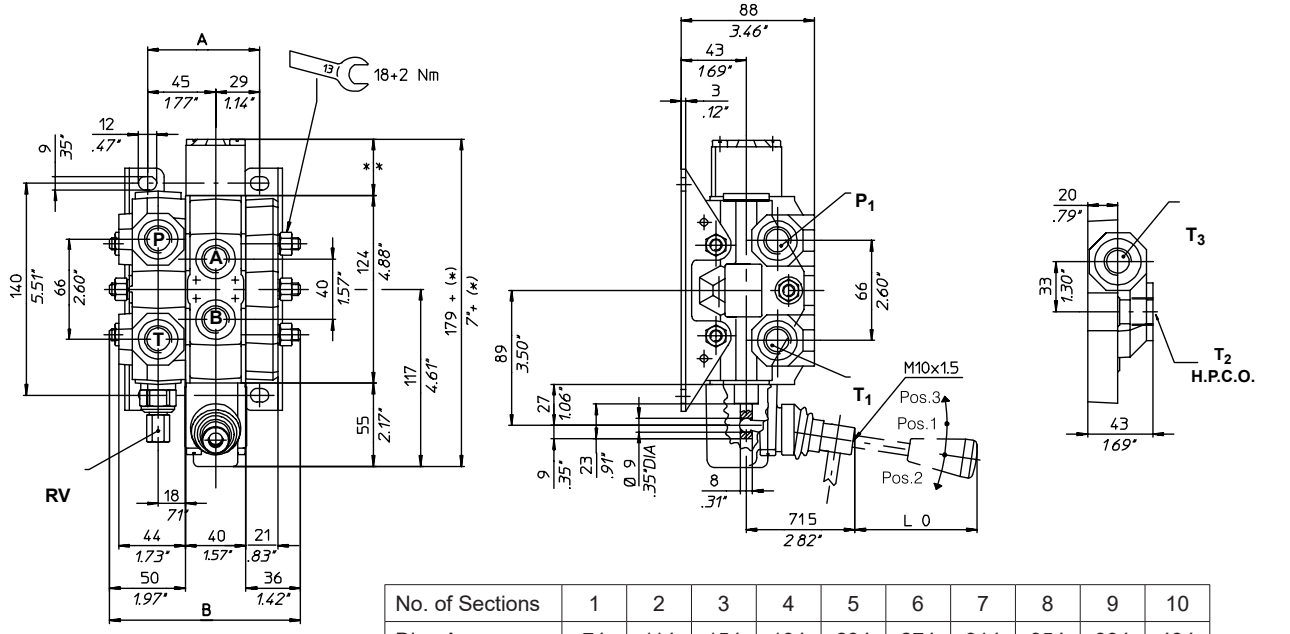
Stock No.	Model Code	Description	List Price
731280020	Code T05	'P' Port c/w Inlet Relief Valve - Parallel Circuit	$ 300.00
731280010	Code T45	'P & T' Ports c/w Inlet Relief Valve - Series & Tandem Circuit	$ 300.00

HDS15 Outlet Sections

Stock No.	Model Code	Description	List Price
730280020	Code P15	End Cover with Ports 'T3' & HPC - Parallel Circuit	$ 300.00
630290100	Code P31	Standard End Cover - Parallel Circuit	$ 94.00
730290110	Code P32	Standard End Cover - Series & Tandem Circuit	$ 94.00
730280040	Code P55	End Cover with Ports 'T3' & HPC - Series & Tandem Circuit	$ 300.00

HDS15 Body Sections

Stock No.	Model Code	Description	List Price
741280006	Code K05A133	Parallel - Double Acting	$ 400.00
741280011	Code K05X133	Series - Double Acting	$ 320.00
741280012	Code K05Z136	Parallel - Double Acting c/w 4th Position Float	$ 500.00
741280014	Code K45A133	Tandem - Double Acting	$ 400.00
741280015	Code K45X133	Tandem/Series Double Acting	$ 500.00
HDS15SPVC	HDS15SPVC	Section c/w Service Port Valve Cavities	$ 68.00
741280025	Code K205AE01E	Parallel - Double Acting - Electric 12V DC	$ 657.00
741280026	Code K205LAE01E	Load Sense - Electric	$ 892.00
741280027	Code K205XE01E	Tandem/Series - Electric	$ 772.00
741280023	Code K35A263	Parallel - Double Acting - EHI Control	$ 1064.00
741280030	Code K205AE01E	24V DC Electric Section	$ 657.00
741280054	Code K15A133	Parallel Section with Cavities	$ 500.00
741280055	Code K55A133	Series Section with Cavities and Tank	$ 347.00



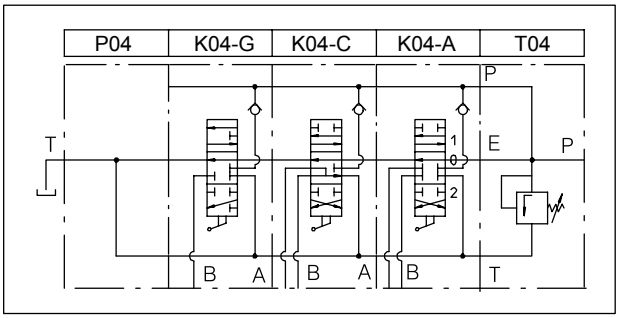
No. of Sections	1	2	3	4	5	6	7	8	9	10
Dim. A	74	114	154	194	234	274	314	354	394	434
Dim. B	126	166	206	246	286	326	366	406	446	486

HDS20 Sectional Valves

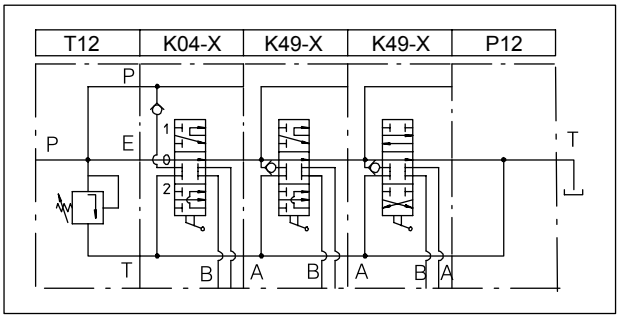
Sectional Directional Control Valve Manually Operated
Standard Double Acting - Spring Centred Assemblies

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
HDS20/1	HDS20/1	1	80 LPM	21 US GPM	320 BAR	4600 PSI	1-1/16" UNO IN/ OUT	$ 752.00
HDS20/2	HDS20/2	2						$ 1104.00
HDS20/3	HDS20/3	3						$ 1455.00
HDS20/4	HDS20/4	4						$ 1809.00
HDS20/5	HDS20/5	5						$ 2160.00
HDS20/6	HDS20/6	6					7/8" UNO WORK	$ 2513.00
HDS20/7	HDS20/7	7						$ 2864.00
HDS20/8	HDS20/8	8						$ 3217.00
HDS20/9	HDS20/9	9						$ 3568.00
HDS20/10	HDS20/10	10						$ 3922.00

Standard parallel circuit



Optional series circuit



HDS20 Options and Accessories

Stock No.	Model Code	Description	List Price
768520020	Type 03	Detent Kit - 3 Position (03)	$ 49.00
768530020	Type 02	Detent Kit - 2 Position - Handle In (20)	$ 49.00
768530080	Type 19	Detent Kit - 2 Position - Handle Out (19)	$ 49.00
651676010	Type Z	4th Position Float Spool Kit (Not available as a spare part)	$ 84.00
651609010	Type G	Single Acting Spool (Not available as a spare part)	$ 40.00
651607010	Type C	Motor Spool (Not available as a spare part)	$ 50.00
SET-HDS20	SET-HDS20	Pre-set Relief Valve (Other than factory set 150 Bar)	$ 17.00
775930070	Type L133	'Plus' Axis Joystick Kit (per Joystick Assembly)	$ 257.00
778400160		No Relief Valve Kit	$ 49.00
760900020	Type L102	Cable Connector Kit	$ 46.00
768650130	Code 24	Hydraulic/Pneumatic Pilot Kit (per spool)	$ 306.00
768650200	HP50	Hydraulic Proportional Control	$ 251.00
787401080	Type OA	Service Port, Relief Valve Cartridge (0-95 Bar)	$ 150.00
787401130	Type OA	Service Port, Relief Valve Cartridge (95-210 Bar)	$ 150.00
787401100	Type OA	Service Port, Relief Valve Cartridge (210-350 Bar)	$ 150.00
787601140	Type C	Service Port, Anti-Cavitation Valve Cartridge	$ 62.00
787401360	Type UC	Service Port, Relief/Anti-Cavitation Valve Cartridge (0-95 Bar)	$ 168.00
787401380	Type UC	Service Port, Relief/Anti-Cavitation Valve Cartridge (95-210 Bar)	$ 168.00
787401370	Type UC	Service Port, Relief/Anti-Cavitation Valve Cartridge (210-350 Bar)	$ 168.00
778400070		Blanking Plug - UC & OA Cavities	$ 50.00

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HDS20 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

HDS20 Inlet Sections

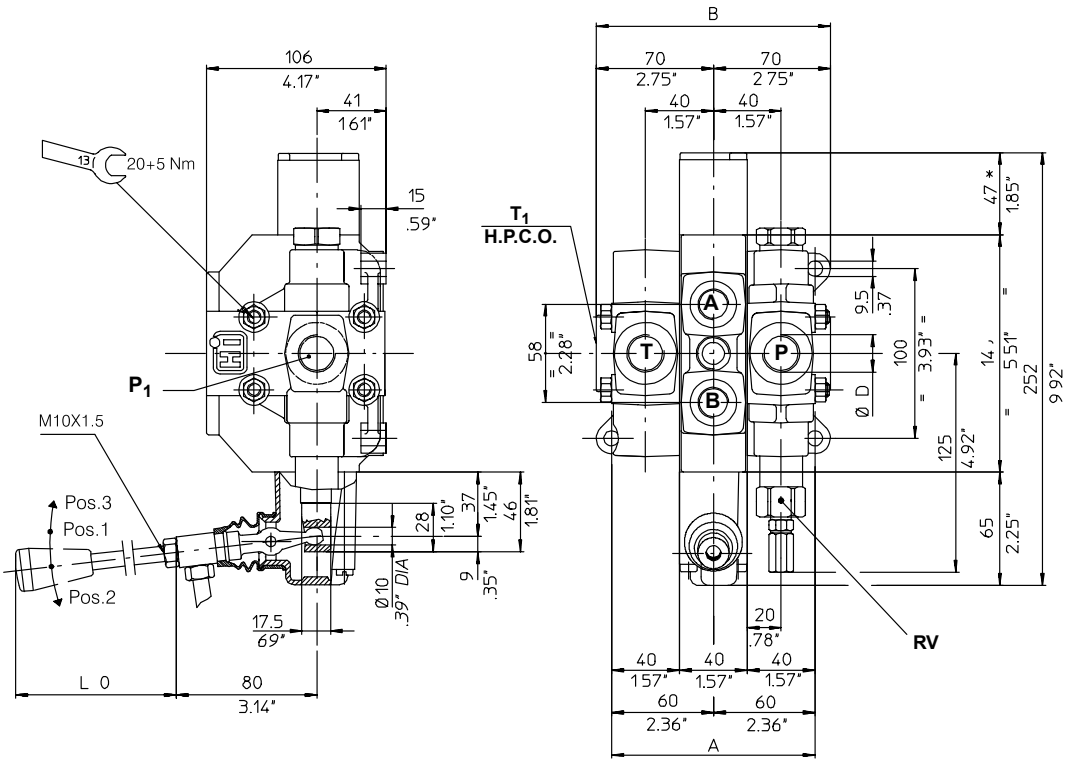
Stock No.	Model Code	Description	List Price
731490020	Code T04	R.H. Inlet ('P' Port c/w Inlet Relief Valve) - Parallel Circuit	$ 500.00
731490040	Code T12	L.H. ('P' Port c/w Inlet Relief Valve) - Series Circuit	$ 500.00

HDS20 Outlet Sections

Stock No.	Model Code	Description	List Price
730490020	Code P04	L.H. Outlet ('T' Port - Open Centre) - Parallel Circuit	$ 329.00
730490040	Code P08	L.H. Outlet ('T' Port c/w HPC) - Parallel Circuit	$ 329.00
630490060	Code P12	R.H. Outlet ('T' Port - Open Centre) - Series Circuit	$ 173.00
730490080	Code P16	R.H. Outlet ('T' Port c/w HPC) - Series Circuit	$ 329.00

HDS20 Body Sections

Stock No.	Model Code	Description	List Price
741480001	Code K04A01	Parallel - Double Acting	$ 352.00
741480006	Code K04X01	Parallel - Double Acting (Series)	$ 467.00
741480008	Code K04Z128	Parallel - Double Acting c/w 4th Position Float	$ 433.00
741480075	Code K08A01	Parallel - Double Acting c/w Service Port Cavities	$ 452.00
741480018	Code K49A01	Tandem - Double Acting	$ 373.00
741480020	Code K49X01	Tandem/Series - Double Acting	$ 480.00
741480076	Code K53A01	Tandem - Double Acting c/w Service Port Relief	$ 472.00



No. of Sections	1	2	3	4	5	6	7	8	9	10
Dim. A	120	160	200	240	280	320	360	400	440	480
Dim. B	140	180	220	260	300	340	380	420	460	500

HDS30 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
120 LPM	31 US GPM	320 BAR	4600 PSI	1-5/16” UNO	1-1/16” UNO
				1” BSPP	3/4” BSPP

HDS30 Inlet Section

Stock No.	Model Code	Description	List Price
731690020	Code T12	L.H. Inlet (‘P’ Port c/w Inlet Relief Valve) 1-5/16” UN	$ 379.00
731650020	Code T10	L.H. Inlet (‘P’ Port c/w Inlet Relief Valve) 1” BSPP	$ 379.00

HDS30 Outlet Section

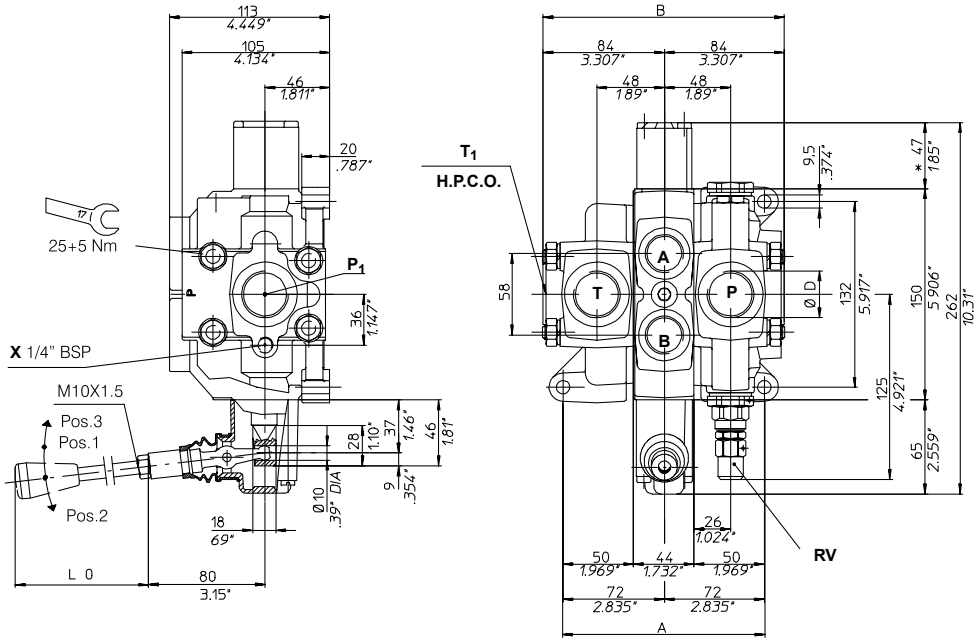
Stock No.	Model Code	Description	List Price
730690040	Code P16	R.H. Outlet (‘T’ Port c/w HPC) 1-5/16” UN	$ 173.00
730650040	Code P14	R.H. Outlet (‘T’ Port c/w HPC) 1” BSPP	$ 173.00

HDS30 Body Section

Stock No.	Model Code	Description	List Price
741690021	Code K08A01	Parallel - Double Acting c/w Service Port Cavities	$ 600.00
741740110	Code K06A01	Parallel - Double Acting c/w Service Port Cavities	$ 400.00
741640706	Code K51X01	Series - Double Acting c/w Service Port Cavities	$ 470.00

HDS30 Options and Accessories

Stock No.	Model Code	Description	List Price
768650200	HP50	Hydraulic Proportional Control	$ 251.00
768650130	Code 24	Hydraulic/Pneumatic Pilot Kit (per spool)	$ 306.00



No. of Sections	1	2	3	4	5	6	7	8	9	10
Dim. A	144	188	232	276	320	364	408	452	496	540
Dim. B	168	212	256	300	344	388	432	476	520	564

HC-D4 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow	Recommended Maximum Pressure	Inlet/Outlet Port Size	Work Port Size
80 LPM	350 BAR	G04 - 1/2" BSPP	G04 - 1/2" BSPP
		U04 - 7/8" UN	U04 - 7/8" UN

HC-D4 Inlet Sections

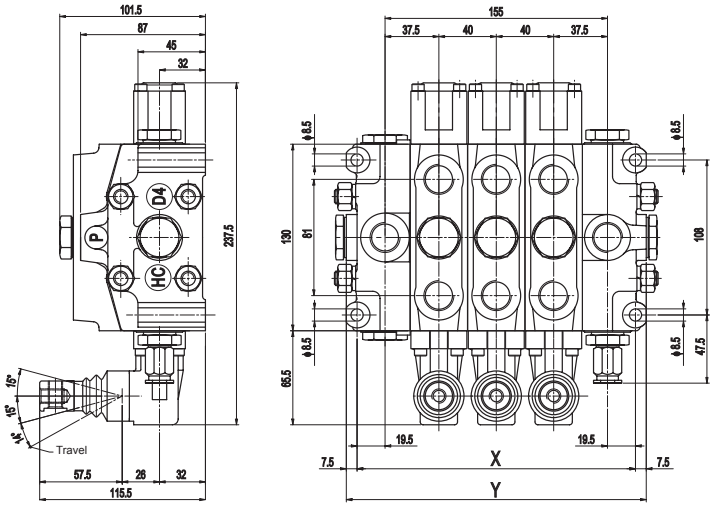
Stock No.	Model Code	Description	List Price
100307	IL009AG04	L.H. Inlet (c/w Inlet Relief Valve) 1/2" BSPP	$ 263.00
60090079ES	IL013AU04	L.H. Inlet (c/w Inlet Relief Valve) 7/8" UN	$ 263.00
100050	IL013AU04	L.H. Inlet (c/w Relief & Unloading) 24V DC	$ 625.00
7833	KZ1	Load Sense Intermediate Plate	$ 250.00

HC-D4 Outlet Sections

Stock No.	Model Code	Description	List Price
2320	TJAG04	R.H. Outlet ('T' Port c/w HPC) 1/2" BSPP	$ 158.00
100051	TNSAU04	R.H. Outlet ('T' Port c/w HPC) 7/8" UN	$ 158.00
18123	TJHDG04	R.H. Outlet Load Sense 1/2" BSPP	$ 128.00
38856	BFAU04	Mid Outlet 7/8" UN	$ 389.00

HC-D4 Body Sections

Stock No.	Model Code	Description	List Price
2163	W001AH001F001A05PAPB	Parallel - Double Acting c/w Cavities G04	$ 445.00
17587	W001AH002F001A	Parallel - Double Acting U04	$ 445.00
31913	W001AH002F001A05PAPB	Parallel - Double Acting c/w Cavities U04	$ 445.00
59089	W001AH001F00A01PA01PB	Parallel - Double Acting c/w Port Reliefs G04	$ 570.00
53861	W001AH001LS05PAPB	Parallel - Double Acting Load Sense c/w Cavities G04	$ 514.00
5006	W001AH00505PAPB	Parallel - Double Acting Hydraulic Pilot c/w Cavities G04	$ 609.00
57379	W001AH002F022A05PAPB	Parallel - Double Acting c/w Pneumatic & Cavities U04	$ 698.00
100137	W002AH002F022A	Parallel - Motor c/w Pneumatic U04	$ 698.00
100196	W002AH002F022A05PAPB	Parallel - Motor c/w Pneumatic & Cavities U04	$ 698.00



No. of Sections		1	2	3	4	5	6	7	8	9	10	11	12
Variable Dimensions (mm)	X	114	154	194	234	274	314	354	394	434	474	514	554
	Y	129	169	209	249	289	329	369	409	449	489	529	569
	Z	140	180	220	260	300	340	380	420	460	500	540	580
Weight (kg)		8	10.8	13.7	16.5	19.4	22.3	25.2	28	30.8	33.7	36.6	39.5

HC-D4 Options and Accessories see Page 1.33

HC-D6 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow	Recommended Maximum Pressure	Inlet/Outlet Port Size	Work Port Size
100 LPM	350 BAR	3/4” BSPP	3/4” BSPP

HC-D6 Inlet Sections

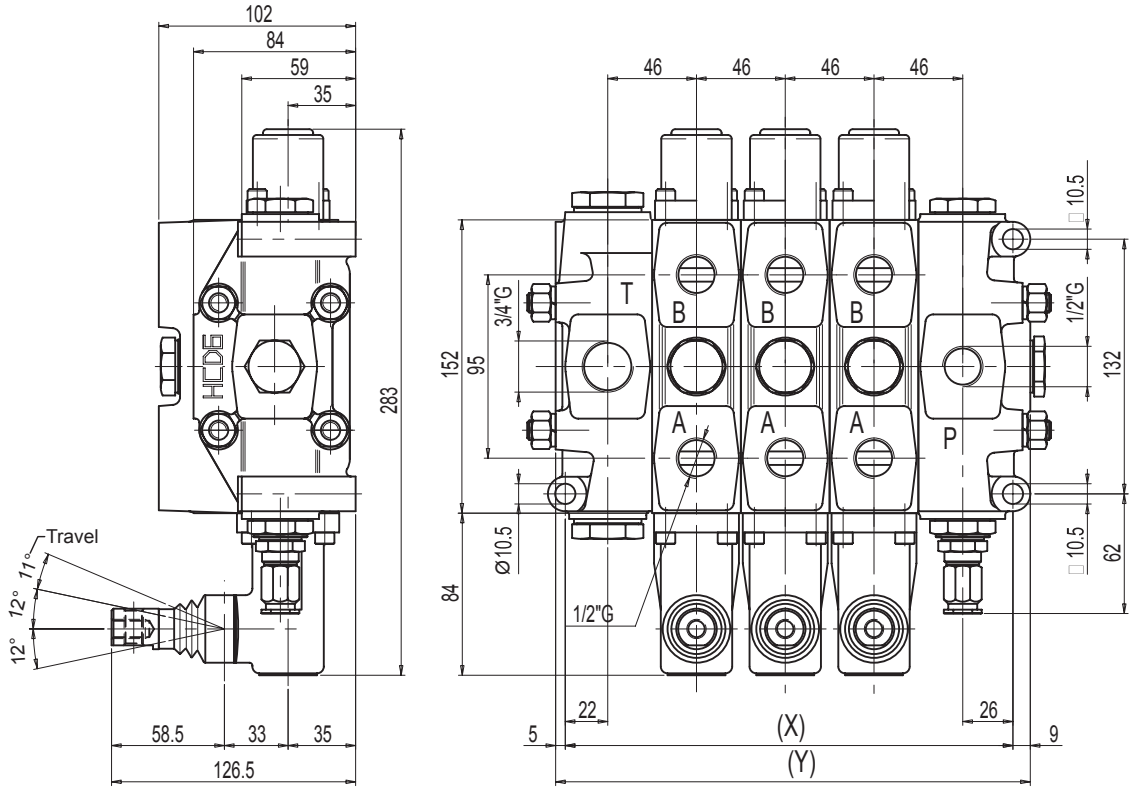
Stock No.	Model Code	Description	List Price
18292	IL009AG05	L.H. Inlet (c/w Inlet Relief Valve)	$ 263.00

HC-D6 Outlet Sections

Stock No.	Model Code	Description	List Price
14706	TNQG05	R.H. Outlet (‘T’ Port c/w HPC)	$ 204.00

HC-D6 Body Sections

Stock No.	Model Code	Description	List Price
16253	W001AH001	Parallel - Double Acting c/w Service Cavities 1/2” BSPP	$ 655.00
12465	W001AH001	Parallel - Double Acting c/w Service Cavities 3/4” BSPP	$ 655.00



No. of Sections		1	2	3	4	5	6	7	8	9	10	11	12
Variable Dimensions (mm)	X	140	186	232	278	324	370	416	462	508	554	600	646
	Y	156	202	248	294	340	386	432	478	524	570	616	662
	Z	180	226	272	318	364	410	456	502	548	594	640	686
Weight (kg)		11.6	16.1	20.5	25	29.4	33.9	38.3	42.8	47.2	51.7	56.1	60.6

HC-D6 Options and Accessories see Page 1.33

HC-D4 / D6 Accessories

HC-D4 Options and Accessories

Stock No.	Model Code	Description	List Price
4703	2A	Relief Cartridge Pilot	$ 125.00
5398	2A	Relief Cartridge Direct	$ 150.00
430104001	3A	No Relief Blanking Plug	$ 21.00
915040403	8A	Solenoid Dump Valve 24V DC	$ 625.00
320304001	H001	Lever Box Kit	$ 138.00
321904003	H128	Cable Connector Kit	$ 100.00
320504006	H005	Hydraulic Pilot Kit *	$ 164.00
320804001	F002A	Detent Kit - 3 Position	$ 133.00
320804002	F003A	Detent Kit - Handle Out	$ 139.00
320804003	F004A	Detent Kit - Handle In	$ 133.00
321104004	F020A	Pneumatic Kit	$ 253.00
321204003	F022A	Pneumatic Kit - Proportional	$ 278.00
321604001	F0620	Electro Pneumatic Kit - 12V DC	$ 658.00
321604002	F0630	Electro Pneumatic Kit - 24V DC	$ 658.00
320004061	H036	Electric Push Solenoid - 12V DC	$ 498.00
320004063	H037	Electric Push Solenoid - 24V DC	$ 498.00
915065905	01P	Service Port Relief 20-70 Bar	$ 100.00
915065901	01P	Service Port Relief 71-121 Bar	$ 100.00
915060423	01P	Service Port Relief 151-250 Bar	$ 100.00
915080401	02P	Anti Cav	$ 100.00
430404001	05P	Cavity Plug	$ 16.00

HC-D6 Options and Accessories

Stock No.	Model Code	Description	List Price
2742	2A	Relief Cartridge - Pilot 150 Bar	$ 228.00
915040701	6A	Relief Cartridge - External Pilot	$ 224.00
430107001	3A	No Relief Blanking Plug	$ 45.00
320305008	H001	Lever Box Kit	$ 156.00
320305001	H101	Handle Kit - Open	$ 154.00
320505001	H005	Hydraulic Pilot Kit *	$ 170.00
320805001	F002C	Detent Kit - 3 Position	$ 146.00
321105004	F020A	Pneumatic Kit	$ 308.00
321205005	F022A	Pneumatic Kit - Proportional	$ 333.00
91506052#	01P	Service Port Relief Cartridge	$ 145.00
91507050#	03P	S/P Relief/Anti Cav	$ 184.00
430405001	05P	Cavity Plug	$ 23.00
# Denotes Range			
* Requires Special Spool			

HC-D16 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
150 LPM	40 US GPM	350 BAR	5000 PSI	3/4" & 1" BSPP	3/4" BSPP

HC-D16 Inlet Sections

Stock No.	Model Code	Description	List Price
22758	IL009AG05	L.H. Inlet (c/w Inlet Relief Valve)	$ 413.00
13652	IR009AG05	R.H. Inlet (c/w Inlet Relief Valve)	$ 413.00
35111	BE009AG05	Mid Inlet (c/w Relief Valve)	$ 705.00

HC-D16 Outlet Sections

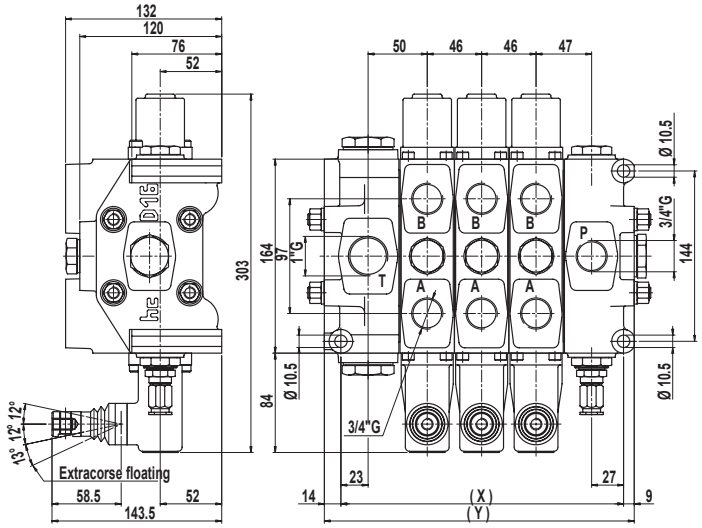
Stock No.	Model Code	Description	List Price
17704	TNQG06	R.H. Outlet ('T' Port c/w HPC)	$ 275.00
20437	BFAG06	Mid Outlet	$ 413.00

HC-D16 Body Sections

Stock No.	Model Code	Description	List Price
16682	W001AH001	Parallel - Double Acting c/w Service Cavities	$ 706.00
46105	W012AH001	Parallel - Float c/w Service Cavities	$ 819.00

HC-D16 Options and Accessories

Stock No.	Model Code	Description	List Price
320806001	F002A	Detent Kit - 3 Position	$ 145.00
SET-HC-D16	SET-HC-D16	Pre-set Relief Valve	$ 16.00
320545001	H006	Hydraulic Pilot Kit (per spool)	$ 330.00
321106002	F020A	Pneumatic Pilot Kit (per spool)	$ 330.00
915060601	01P	Service Port, Relief Valve Cartridge	$ 165.00
915070602	04P	Service Port, Relief/Anti-Cavitation Valve Cartridge	$ 275.00



No. of Sections		1	2	3	4	5	6	7	8	9	10	11	12
Variable Dimensions (mm)	X	147	193	239	285	331	377	423	469	515	561	607	653
	Y	170	216	262	308	354	400	446	492	538	584	630	676
	Z	200	246	292	338	384	430	476	522	568	614	660	706
Weight (kg)		19.1	24.1	29.2	34.3	39.5	44.5	49.3	54.7	59.8	64.0	70.0	75.1

HC-D20 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
250 LPM	66 US GPM	350 BAR	5000 PSI	1” & 1-1/4” BSPP	1” BSPP

HC-D20 Inlet Sections

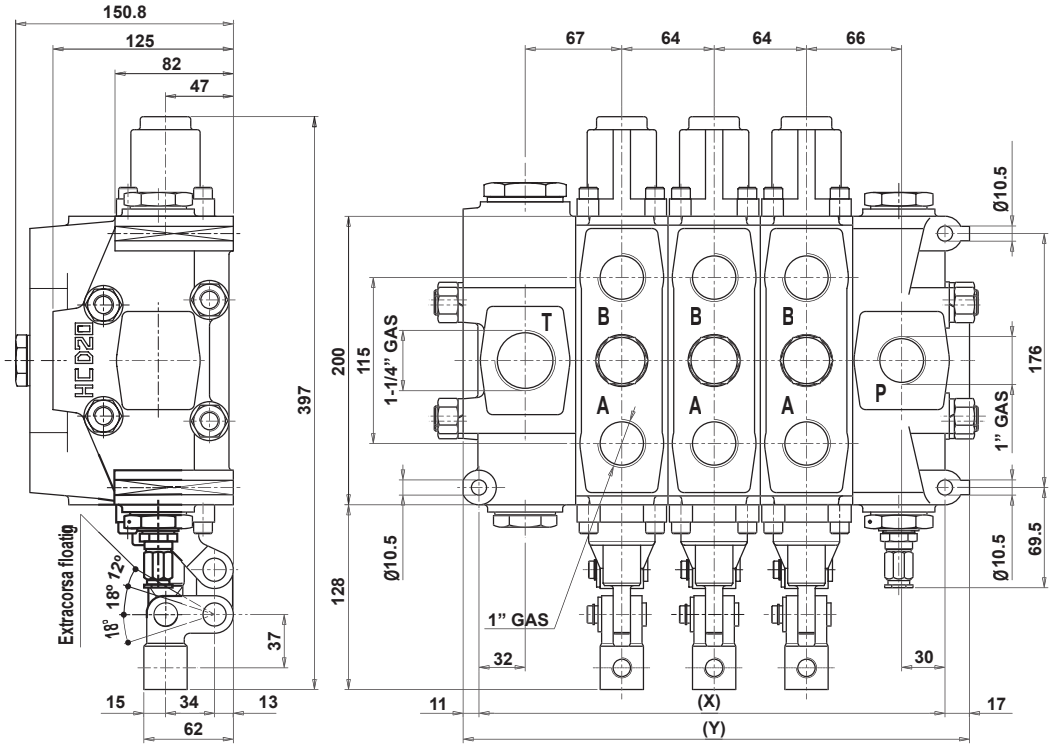
Stock No.	Model Code	Description	List Price
4256	IL009AG06	L.H. Inlet (c/w Inlet Relief Valve)	$ 619.00
2034	IR009AG006	R.H. Inlet (c/w Inlet Relief Valve	$ 619.00
33726	BE009AG06	Mid Inlet Section	$ 1161.00

HC-D20 Outlet Sections

Stock No.	Model Code	Description	List Price
19554	TNQG07	R.H. Outlet (‘T’ Port c/w HPC)	$ 413.00
17990	BFAG07	Mid Outlet	$ 715.00

HC-D20 Body Sections

Stock No.	Model Code	Description	List Price
5018	W001AH101	Parallel - Double Acting c/w Service Cavities	$ 1203.00
18613	W001BH005	Parallel - Double Acting c/w Service Cavities - Hydraulic Pilot	$ 1305.00
46106	W012AH101	Parallel - Float c/w Service Cavities	$ 1401.00
55410	W002BH005	Parallel - Motor c/w Service Cavities - Hydraulic Pilot	$ 1305.00



No. of Sections		1	2	3	4	5	6	7	8	9	10	11	12
Variable Dimensions (mm)	X	195	259	323	387	451	515	579	643	707	771	835	899
	Y	223	287	351	415	479	543	607	671	735	799	863	927
	Z	248	312	376	440	504	568	632	696	760	824	888	952
Weight (kg)		28.7	39.6	50.6	61.6	72.6	83.5	94.5	105.5	116.4	127.4	138.4	149.4

HC-D20 Options and Accessories see Page 1.37

HC-D25 Sectional Valves

Sectional Directional Control Valve Manually Operated

Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
380 LPM	100 US GPM	350 BAR	5000 PSI	1-1/4" & 1-1/2" BSPP	1-1/4" BSPP
				1" & 1-1/4" Code 62	1-1/4" Code 62

HC-D25 Inlet Sections

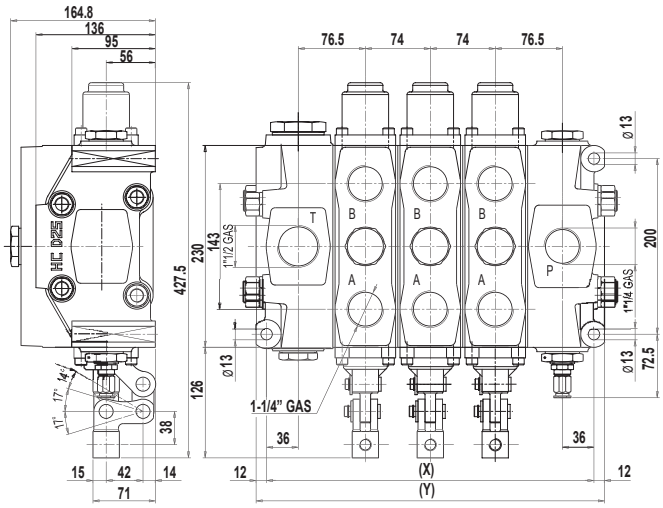
Stock No.	Model Code	Description	List Price
4436	IL009AG07	L.H. Inlet (c/w Relief Valve) 1-1/4" BSPP	$ 729.00
2557	IR009AG07	R.H. Inlet (c/w Relief Valve) 1-1/4" BSPP	$ 729.00
70913	IR009S36	R.H. Inlet (c/w Relief Valve) 1" Code 62 UNC	$ 729.00
74394	IR019S36	R.H. Inlet (c/w Relief Valve) 1" Code 62 UNC	$ 729.00
46104	BE009AG07	Mid Inlet (c/w Relief Valve)	$ 1491.00

HC-D25 Outlet Sections

Stock No.	Model Code	Description	List Price
25613	TNQG08	R.H. Outlet (c/w HPC) 1-1/2" BSPP	$ 509.00
23183	TJAS37	L.H. Outlet (c/w HPC) 1-1/4" Code 62 UNC	$ 509.00
18552	BFAG08	Mid Outlet	$ 894.00

HC-D25 Body Sections

Stock No.	Model Code	Description	List Price
23532	W001AH101	Parallel - Double Acting c/w Cavities - Manual	$ 1374.00
38866	W001AH114	Parallel - Double Acting c/w Cavities - Rotary	$ 2108.00
34703	W001BH005	Parallel - Double Acting c/w Cavities - Hydraulic Pilot	$ 1511.00
34703M	W002BH005	Parallel - Motor c/w Cavities - Hydraulic Pilot	$ 1513.00
83392	W001BH005S36	Parallel - Double Acting c/w Cavities - Hydraulic Pilot 1" Code 62	$ 6626.00
83395	W002BH005S36	Parallel - Motor c/w Cavities - Hydraulic Pilot 1" Code 62	$ 1511.00
83393	W001BH005S36	Parallel - Double Acting c/w Port Relief - Hydraulic Pilot 1" Code 62	$ 1939.00
83394	W002BH005S36	Parallel - Motor c/w Port Relief - Hydraulic Pilot 1" Code 62	$ 1939.00



No. of Sections		1	2	3	4	5	6	7	8	9	10	11	12
Variable Dimensions (mm)	X	225	299	373	447	521	595	669	746	817	891	965	1039
	Y	249	323	397	471	545	619	693	767	841	915	989	1063
	Z	276	350	424	498	572	646	720	794	868	942	1016	1090
Weight (kg)		41.3	56.8	72.3	87.8	103.4	119	134.4	150	165.5	181	196.5	212

HC-D25 Options and Accessories see Page 1.37

HC-D20 / D25 Accessories

HC-D20 Options and Accessories

Stock No.	Model Code	Description	List Price
2382	2A	Relief Cartridge Pilot 40-400 Bar	$ 385.00
915040901	6A	Relief Cartridge External Pilot	$ 350.00
430109001	3A	No Relief Blanking Plug	$ 78.00
320708001	F001A	Spring Centre Assembly	$ 69.00
320808001	F002A	Detent Kit - 3 Position	$ 236.00
430509001	H101A	Lever M14x350	$ 31.00
320308001	H101	Handle Assembly Steel	$ 274.00
321208002	F022A	Pneumatic Pilot Kit - Proportional (per spool)	$ 481.00
321108003	F020A	Pneumatic Pilot Kit (per Spool)	$ 481.00
320508008	H005	Hydraulic Pilot Kit (one end only) 4-27 Bar	$ 351.00
915060908	01PA	Service Port, Relief Valve Cartridge 161-270 Bar	$ 214.00
915060909	01PA	Service Port, Relief Valve Cartridge 271-380 Bar	$ 214.00
915070802	04PA	Service Port, Relief/anti Cav Cartridge 131-220 Bar	$ 303.00
915070812	04PA	Service Port, Relief/anti Cav Cartridge 111-350 Bar	$ 303.00
430409001	05PA	Service Port Cavity Blanking Plug	$ 41.00
350909001		Seal Kit Section Face	$ 83.00
412010610		Spool O-Ring BS7210	$ 5.00

HC-D25 Options and Accessories

Stock No.	Model Code	Description	List Price
2382	2A	Relief Cartridge Pilot 40-400 Bar	$ 385.00
430109001	3A	No Relief Blanking Plug	$ 78.00
320709004	F001A	Spring Centre Assembly	$ 104.00
320809001	F002A	Detent Kit - 3 Position	$ 413.00
430509001	H101A	Lever M14x350	$ 31.00
320309001	H101	Handle Assembly Steel	$ 413.00
320509001	H005	Hydraulic Pilot Kit (one end only) 4-27 Bar	$ 690.00
915060908	01PA	Service Port, Relief Valve Cartridge 161-270 Bar	$ 214.00
915060909	01PA	Service Port, Relief Valve Cartridge 271-380 Bar	$ 214.00
915070802	04PA	Service Port, Relief/Anti Cav Cartridge 131-220 Bar	$ 303.00
915070812	04PA	Service Port, Relief/Anti Cav Cartridge 111-350 Bar	$ 303.00
430409001	05PA	Service Port Cavity Blanking Plug	$ 41.00
350909001		Seal Kit Section Face	$ 83.00
412010903		Spool O-Ring BS7217	$ 5.00

HC-D40 Sectional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
700 LPM	185 US GPM	350 BAR	5000 PSI	2” BSPP	2” BSPP

HC-D40 Inlet Section

Stock No.	Model Code	Description	List Price
26573	IL009AG09	L.H. Inlet (c/w Inlet Relief Valve)	$ 1730.00

HC-D40 Outlet Section

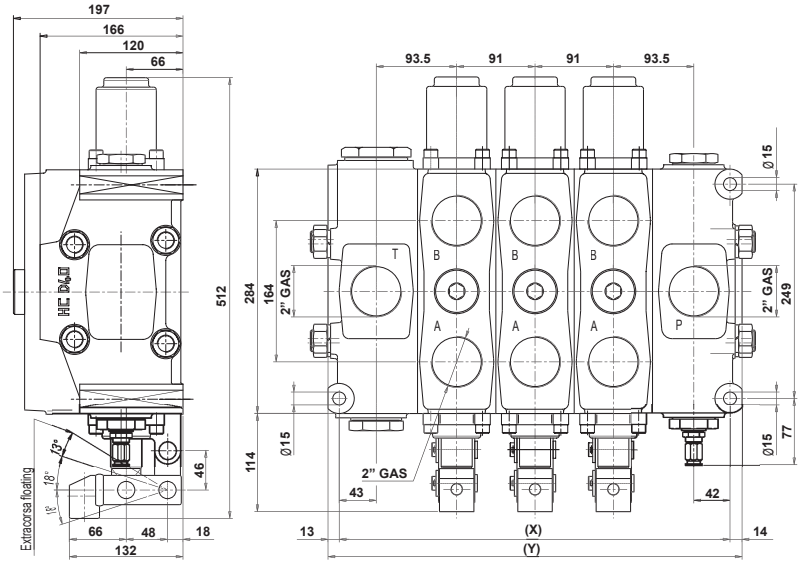
Stock No.	Model Code	Description	List Price
25625	TNQG09	R.H. Outlet (‘T’ Port c/w HPC)	$ 1181.00

HC-D40 Body Sections

Stock No.	Model Code	Description	List Price
24195	W001AH101	Parallel - Double Acting c/w Service Cavities	$ 3295.00
44820	W001BH005	Parallel - Double Acting c/w Service Cavities - Hydraulic Pilot	$ 3295.00

HC-D40 Options and Accessories

Stock No.	Model Code	Description	List Price
320810001	F002A	Detent Kit - 3 Position	$ 743.00
SET-HC-D40	SET-HC-D40	Pre-set Relief Valve	$ 22.00
320510001	H005	Hydraulic Pilot Kit (*One end only - as spare part))	$ 660.00
25118	01PA (220)	Service Port, Relief Valve Cartridge	$ 670.00
50581	04PA (220)	Service Port, Combination Valve Cartridge	$ 900.00
915081001	02PA	Service Port, Anti-Cavitation Valve Cartridge	$ 410.00



No. of Sections		1	2	3	4	5	6	7	8	9	10	11	12
Variable Dimensions (mm)	X	272	363	454	545	636	727	818	909	1000	1091	1182	1273
	Y	299	390	481	572	663	754	845	936	1027	1118	1209	1300
	Z	334	425	516	607	698	789	880	971	1062	1153	1244	1355
Weight (kg)		75	104	133	162	191	220	249	278	307	336	365	394

VD6A Sectional Valves

Sectional Directional Control Valves

Recommended Maximum Flow		Recommended Maximum Pressure	
50 LPM	13 US GPM	350 BAR	5000 PSI

VD6A Inlet Sections

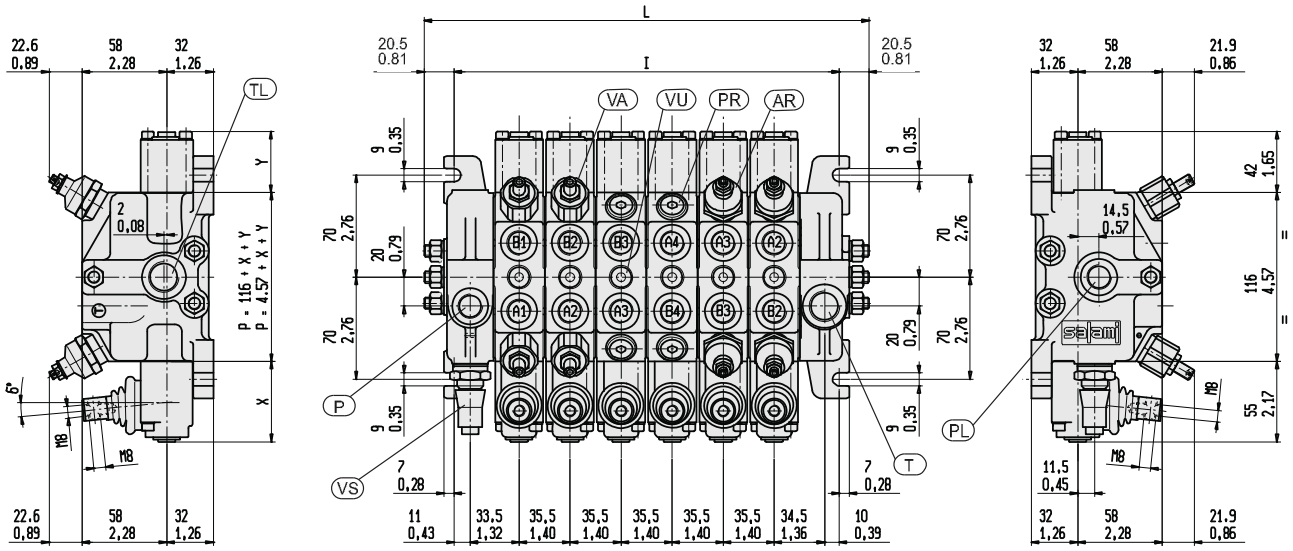
Stock No.	Model Code	Description	Port Size	List Price
R23470090	02D(175)	Inlet P + P1	3/4" UNO (SAE 8)	$ 157.00
R23570480	02D(175)	Inlet P + P1	3/8" BSPP	$ 233.00

VD6A Outlet Sections

Stock No.	Model Code	Description	Port Size	List Price
R23490030	U4S	Outlet	7/8” UNO (SAE 10)	$ 102.00
R23490040	U4G	Outlet	1/2” BSPP	$ 102.00

VD6A Body Sections

Stock No.	Model Code	Description	Port Size	List Price
S23480070	P01APRAPRBNLAC2	Parallel - DA with Cavities	3/4" UNO (SAE 8)	$ 249.00
S23480010	P01APRAPRBNLAC2	Parallel - DA with Cavities	3/8" BSPP	$ 249.00
S23480270	P12APRAPRBNLAF5	Parallel - Float with Cavities	3/4" UNO (SAE 8)	$ 325.00
S23480480	S01APRAPRBNLAC2	Series - DA with Cavities	3/4" UNO (SAE 8)	$ 265.00
S23480510	S01APRAPRBNLAC2	Series - DA with Cavities	3/8" BSPP	$ 265.00
S23480580	T01APRAPRBNLAC2	Tandem - DA with Cavities	3/4" UNO (SAE 8)	$ 265.00
S23480570	T01APRAPRBNLAC2	Tandem - DA with Cavities	3/8" BSPP	$ 265.00
S23480540	P01APRAPRBESAE7B	Parallel - DA Electric 12VDC	3/4" UNO (SAE 8)	$ 717.00
S23480780	P01APRAPRBESAE8B	Parallel - DA Electric 24VDC	3/4" UNO (SAE 8)	$ 717.00
S23480610	P01APRAPRBESAE7B	Parallel - DA Electric 12VDC	3/8" BSPP	$ 717.00
S23480660	P01APRAPRBESAE8B	Parallel - DA Electric 24VDC	3/8" BSPP	$ 717.00



Spools		1	2	3	4	5	6	7	8
I	mm	89	124.5	160	195.5	231	266.5	302	337.5
	in.	3.5	4.90	6.30	7.70	9.10	10.49	11.89	13.29
L	mm	130	165.5	201	236.5	272	307.5	343	378.5
	in.	5.12	6.51	7.91	9.31	10.71	12.10	13.50	14.90
M	kg	5.56	7.7	9.8	11.9	14.1	16.3	18.4	20.5
	lb	12.2	16.9	21.6	26.2	31	35.9	40.5	45.1

VD6A Sectional Valves

Sectional Directional Control Valves

VD6A Options and Accessories

Stock No.	Model Code	Description	List Price
R23400221	C2H	Spring Centre Kit >250BAR	$ 50.00
R23400320	R2	Detent Kit 3 Position Handle IN & OUT with Spring Return	$ 91.00
R23400280	R4	Detent Kit 3 Position Handle IN with Spring Return	$ 91.00
R23400250	R5	Detent Kit 3 Position Handle OUT with Spring Return	$ 91.00
R23400319	R6	Detent Kit 2 Position Handle OUT	$ 102.00
R23400290	R7	Detent Kit 2 Position Handle IN	$ 102.00
R23400321	R9	Detent Kit 3 Position Handle IN/0/OUT	$ 84.00
R23400010	IP	Hydraulic Pilot Proportional 1/4" BSPP	$ 159.00
323411391	IPS	DA Spool for Hydraulic Pilot	$ 72.00
R23400100	PP	Pneumatic Pilot Proportional 1/8"BSPP	$ 209.00
R23400033	L1-L2	Plus Axis Joystick	$ 199.00
R23400060	NL	Lever Box Assy	$ 80.00
R20192000	LA	Lever Rod 180mm M8	$ 12.00
R23400210		Spool Seal Kit	$ 30.00
R23400200		Side Seal Kit	$ 24.00
R25000611	VA (20 -70 BAR)	Service Port Relief Cartridge	$ 72.00
R25000621	VA (71-130 BAR)	Service Port Relief Cartridge	$ 72.00
R25000631	VA (131-205 BAR)	Service Port Relief Cartridge	$ 72.00
R25000641	VA (206 -330 BAR)	Service Port Relief Cartridge	$ 72.00
R25001811	AR (50 - 90 BAR)	Service Port Relief & Anti-Cavitation Cartridge	$ 117.00
R25001821	AR (91 - 130 BAR)	Service Port Relief & Anti-Cavitation Cartridge	$ 117.00
R25001831	AR (131 - 205 BAR)	Service Port Relief & Anti-Cavitation Cartridge	$ 117.00
R25001841	AR (206 - 275 BAR)	Service Port Relief & Anti-Cavitation Cartridge	$ 117.00
R23400500	PR	Service Port Relief Cavity Plug	$ 21.00
R25000650	VR	Service Port Anti-Cavitation Valve	$ 41.00
R23400460	D (76 - 150 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 69.00
R23400470	D (151 - 220 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 69.00
R23400480	D (221 - 300 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 69.00
R23400450	W	Main Relief Valve Cavity Plug	$ 23.00
795429200	5	HPCO Plug	$ 25.00
R23400610	1	Tierod Kit 1 Spool	$ 28.00
R23400620	2	Tierod Kit 2 Spool	$ 25.00
R23400630	3	Tierod Kit 3 Spool	$ 30.00
R23400640	4	Tierod Kit 4 Spool	$ 33.00
R23400650	5	Tierod Kit 5 Spool	$ 31.00
R23400660	6	Tierod Kit 6 Spool	$ 35.00
R23400670	7	Tierod Kit 7 Spool	$ 43.00
R23400680	8	Tierod Kit 8 Spool	$ 37.00
323411301	01A	Double Acting Cylinder Spool	$ 50.00
323411301C	01C	Double Acting High Metering Spool	$ 50.00
323411302	02A	Double Acting Motor Spool	$ 50.00

VD8A Sectional Valves

Sectional Directional Control Valves

Recommended Maximum Flow		Recommended Maximum Pressure	
80 LPM	21 US GPM	350 BAR	5000 PSI

VD8A Inlet Sections

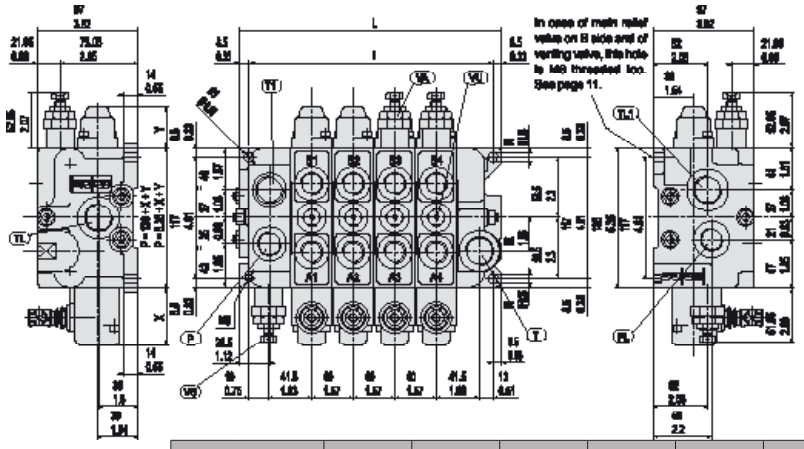
Stock No.	Model Code	Description	Port Size	List Price
R23570410	02D(175)	Inlet P + P1	7/8" UNO (SAE 10)	$ 233.00
R23570480	02D(175)	Inlet P + P1	1/2" BSPP	$ 233.00
R23570490	02P(175)	Inlet P + P1	7/8" UNO (SAE 10)	$ 300.00
R23570470	02P(175)	Inlet P + P1	1/2" BSPP	$ 300.00

VD8A Outlet Sections

Stock No.	Model Code	Description	Port Size	List Price
R23580030	U4S	Outlet	1-1/16" UNO (SAE 12)	$ 140.00
R23590030	U4G	Outlet	3/4" BSPP	$ 140.00

VD8A Body Sections

Stock No.	Model Code	Description	Port Size	List Price
S23580290	P01APRAPRBNPAC2	Parallel - DA with Cavities	7/8" UNO (SAE 10)	$ 378.00
S23582200	P01APRAPRBNPAC2	Parallel - DA with Cavities	1/2" BSPP	$ 378.00
S23582600	P12APRAPRBNPAF5	Parallel - Float with Cavities	7/8" UNO (SAE 10)	$ 463.00
S23582640	P12APRAPRBNPAF5	Parallel - Float with Cavities	1/2" BSPP	$ 463.00
S23582391	S01APRAPRBNPAC2	Series - DA with Cavities	7/8" UNO (SAE 10)	$ 316.00
S23584460	S01APRAPRBNPAC2	Series - DA with Cavities	1/2" BSPP	$ 316.00
S23583890	S01APRAPRBNPAC2	Series - DA with Cavities and Secondary Load Check Valve	7/8" UNO (SAE 10)	$ 345.00
S23582361	S01APRAPRBNPAC2	Series - DA with Cavities and Secondary Load Check Valve	1/2" BSPP	$ 345.00
S23582800	T01APRAPRBNPAC2	Tandem - DA with Cavities	7/8" UNO (SAE 10)	$ 400.00
S23583570	T01APRAPRBNPAC2	Tandem - DA with Cavities	1/2" BSPP	$ 400.00
S23582720	P01APRAPRBLTAE1B	Parallel - DA Electric 12VDC	7/8" UNO (SAE 10)	$ 910.00
S23582730	P01APRAPRBLTAE2B	Parallel - DA Electric 24VDC	7/8" UNO (SAE 10)	$ 910.00
S23582700	P01APRAPRBLTAE1B	Parallel - DA Electric 12VDC	1/2" BSPP	$ 910.00
S23582680	P01APRAPRBLTAE2B	Parallel - DA Electric 24VDC	1/2" BSPP	$ 910.00



INDEX:

- P = top inlet port
- PL = side inlet port
- T = top outlet port
- TL = side outlet port
- T1 = top outlet port*
- TL1 = side outlet port*
- A/B = work ports
- VS = main relief valve(adjustable)
- VA = overload valve
- VU = load check valve

*Only in case of inlet and outlet first module the end module is closed

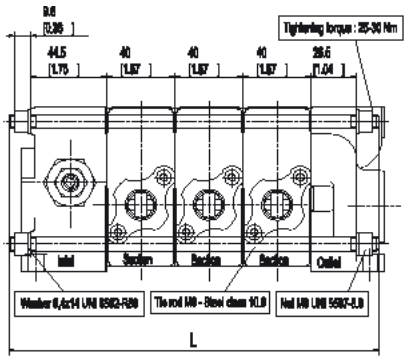
Spools		1	2	3	4	5	6	7	8
I	mm	115	155	195	235	275	315	355	395
	in.	4.53	6.10	7.68	9.25	10.83	12.40	19.97	15.55
L	mm	143.5	183.5	223.5	263.5	303.5	343.5	383.5	423.5
	in.	5.65	7.22	8.80	10.37	11.95	13.52	15.10	16.67
M	kg	11	14.5	18	21.5	25	28.5	32	35.5
	lb	24.2	31.9	39.6	47.3	55	62.7	70.4	78.1

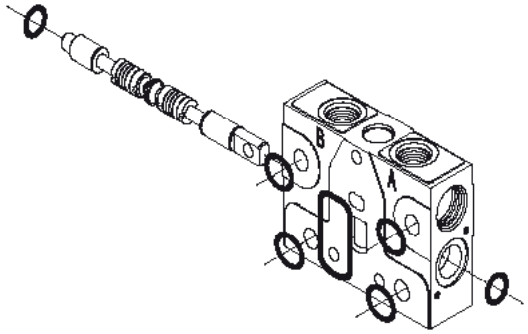
VD8A Sectional Valves

Sectional Directional Control Valves

VD8A Options and Accessories

Stock No.	Model Code	Description	List Price
R23575070	C2H	Spring Centre Kit >250BAR	$ 120.00
R23500300	R2	Detent Kit 3 Position Handle IN & OUT with Spring Return	$ 90.00
R23500400	R4	Detent Kit 3 Position Handle IN with Spring Return	$ 90.00
R23500500	R5	Detent Kit 3 Position Handle OUT with Spring Return	$ 90.00
R23575420	R6	Detent Kit 2 Position Handle OUT	$ 106.00
R23575410	R7	Detent Kit 2 Position Handle IN	$ 106.00
R23575490	R9	Detent Kit 3 Position Handle IN/0/OUT	$ 90.00
R23575322	IP	Hydraulic Pilot Proportional 1/4" BSPP	$ 93.00
323511390	IPS	DA Spool for Hydraulic Pilot	$ 60.00
R23575151	PP	Pneumatic Pilot Proportional 1/8"BSPP	$ 350.00
R20287910	NP	Lever Box Assy	$ 100.00
R20272590	LA	Lever Rod 180mm M8	$ 25.00
R23572590		Spool Seal Kit	$ 25.00
R23572500		Side Seal Kit	$ 20.00
796366200	D&VA (20-70 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 86.00
796366300	D&VA (71-150 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 150.00
796366400	D&VA (151-215 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 86.00
796366500	D&VA (216-265 BAR)	Pressure Relief Valve Direct Type Cartridge	$ 86.00
796366700	P&AR (10 - 400 BAR)	Pressure Relief and Anti-Cavitation Valve Piloted Type Cartridge	$ 197.00
R23577511	VR	Anti-Cavitation Valve Cartridge	$ 57.00
R23577520	W & PR	Main Relief & Service Port Relief Cavity Plug	$ 30.00
R23580020	5S	HPCO Sleeve 7/8" UNO (SAE10)	$ 40.00
R23580010	5G	HPCO Sleeve 1/2" BSPP	$ 40.00
R23585010	1	Tierod Kit 1 Spool	$ 28.00
R23585020	2	Tierod Kit 2 Spool	$ 29.00
R23585030	3	Tierod Kit 3 Spool	$ 34.00
R23585040	4	Tierod Kit 4 Spool	$ 39.00
R23585050	5	Tierod Kit 5 Spool	$ 44.00
R23585060	6	Tierod Kit 6 Spool	$ 49.00
R23585070	7	Tierod Kit 7 Spool	$ 54.00
R23585080	8	Tierod Kit 8 Spool	$ 59.00
323511301	01A	Double Acting Cylinder Spool	$ 60.00
323511302	02A	Double Acting Motor Spool	$ 60.00
323411390	01AIP	Double Acting Cylinder Spool suit Hydraulic Pilot IP	$ 60.00
323511391	02AIP	Double Acting Motor Spool suit Hydraulic Pilot IP	$ 60.00

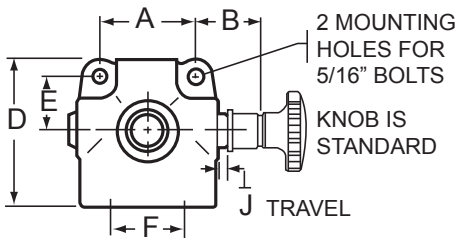


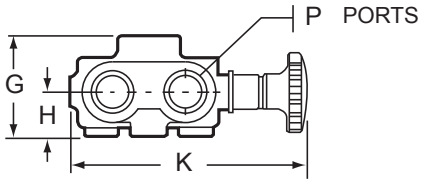


VS and SD Selector Valves

Manually Operated 3 Port Selector Valve - VS

Stock No.	Model Code	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
128140	VS2BKLF2	75 LPM	20 US GPM	172 BAR	2450 PSI	1/2" NPT	$ 250.00
128142	VS2BKLF4			207 BAR	2950 PSI	3/4" UNO	$ 250.00
SS3A3D	Selector with Knob/Spring Offset	75 LPM	20 US GPM	172 BAR	2500 PSI	3/4" UNO	$ 350.00
128100	VS4BKLF6	150 LPM	40 US GPM	172 BAR	2450 PSI	3/4" NPT	$ 400.00
128101	VS4BKLF7			172 BAR	2450 PSI	1" NPT	$ 400.00
128092	VS4BKLF8			275 BAR	3950 PSI	1-1/16" UNO	$ 400.00
128103	VS4BKLF9			207 BAR	2950 PSI	1-5/16" UNO	$ 400.00

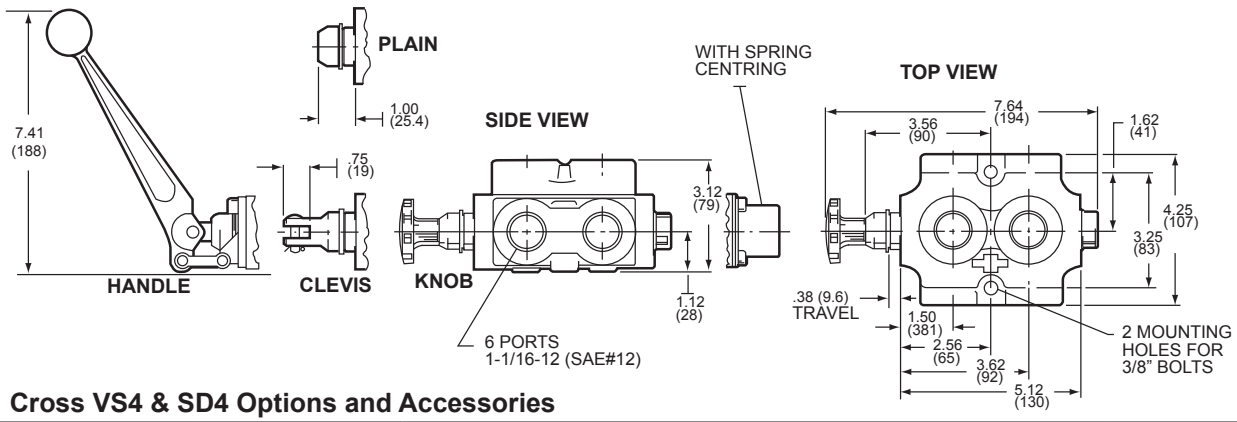




Model	VS2	VS4
A	54	76
B	39	40
D	82	105
E	30	38
F	41	54
G	57	66
H	25.4	28
J	7.9	9.6
K	135	155

Manually Operated 6 Port Selector Valve - SD

Stock No.	Model Code	Other Features	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
129892	SD4BKLA1	--	150 LPM	40 US GPM	172 BAR	2450 PSI	1/2" NPT	$ 500.00
129870	SD4BKLA2	--			350 BAR	5000 PSI	3/4" UNO	$ 500.00
129907	SD4BKLA5	--					1-1/16" UNO	$ 500.00
129046	SD4BADA5	c/w Lever & Detent					1-1/16" UNO	$ 650.00
129118	SD4BKLB5	Series/Parallel					1-1/16" UNO	$ 500.00
129924	SD4BKLA7	--			310 BAR	4500 PSI	1-5/16" UNO	$ 500.00



Cross VS4 & SD4 Options and Accessories

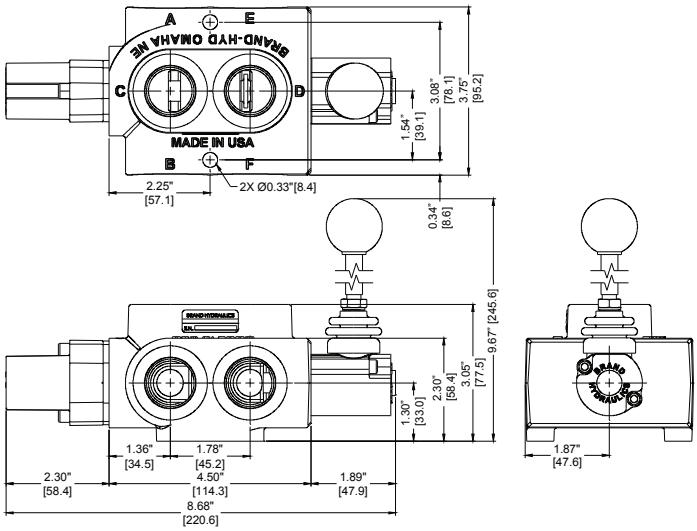
Stock No.	Model Code	Description	List Price
1V0934	Code D	Detent Kit - 2 Position	$ 140.00
1V0932	Code B	Spring Return Kit	$ 50.00
1V0931	Code A	Handle Kit	$ 100.00
1V0633	Code G	Male Handle Adaptor	$ 17.00
1V0930	Code C	Female Clevis Kit	$ 37.00
1V1935S	Code US	Pilot Operating Kit - Steel, Pilot pressures: Min. 7 Bar, Max. 206 Bar	$ 200.00
1V1623		Steel Handle Kit	$ 150.00

DS Selector Valves

Enclosed Lever & Detent 6 Port Selector Valves

Stock No.	Special Features	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
DS08BLD	Parallel	1	38 LPM	10 GPM	310 BAR	4500 PSI	3/4” UNO	$ 550.00
DS10BLD	Parallel	1	68 LPM	18 GPM	310 BAR	4500 PSI	7/8” UNO	$ 550.00
DS10ALD	Series/Parallel	1	68 LPM	18 GPM	310 BAR	4500 PSI	7/8” UNO	$ 550.00
DS12BLD	Parallel	1	114 LPM	30 GPM	310 BAR	4500 PSI	1-1/16” UNO	$ 550.00
DS12ALD	Series/Parallel	1	114LPM	30 GPM	310 BAR	4500 PSI	1-1/16” UNO	$ 550.00

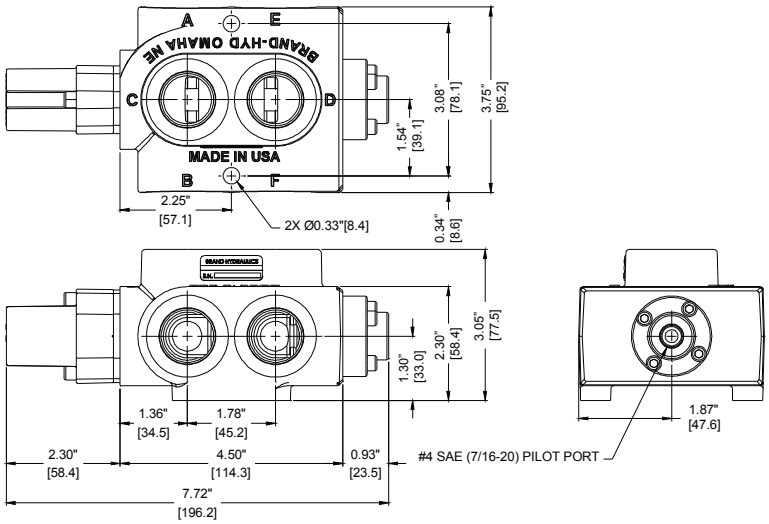
DS12ALD shown below:

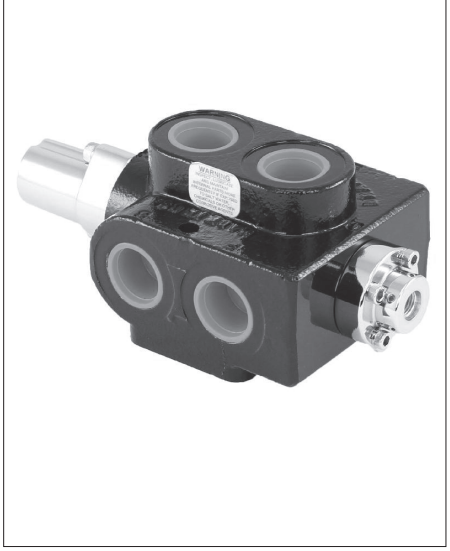


Hydraulic Pilot Operated 6 Port Selector Valves

Stock No.	Special Features	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
DS08BPS	Parallel	1	38 LPM	10 GPM	310 BAR	4500 PSI	3/4” UNO	$ 600.00
DS10BPS	Parallel	1	68 LPM	18 GPM	310 BAR	4500 PSI	7/8” UNO	$ 600.00
DS12BPS	Parallel	1	114 LPM	30 GPM	310 BAR	4500 PSI	1-1/16” UNO	$ 600.00

DS12BPS shown below:

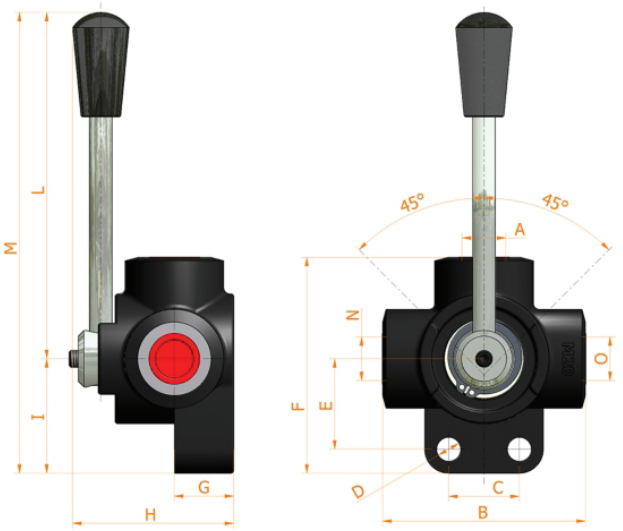


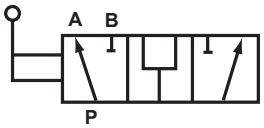


D3V Diverter Valves

Manually Operated 3 Way Rotary Diverter Valve - Changeover Open

Stock No.	Recommended Maximum Flow	Recommended Max. Pressure	Port Size	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	List Price
D3V14	60 LPM	350 BAR	1/4” BSPP	70	25	8.5	32	75.5	21	57	115	155.5	$ 80.00
D3V38	60 LPM	350 BAR	3/8” BSPP	70	25	8.5	32	75.5	21	57	115	155.5	$ 110.00
D3V12	90 LPM	350 BAR	1/2” BSPP	80	32	8.5	36	86	24	63	115	161	$ 88.00
D3V34	120 LPM	350 BAR	3/4” BSPP	90	32	10.5	42	98.5	26	67	115	168.5	$ 100.00
D3V1	200 LPM	300 BAR	1” BSPP	98	32	10.5	50	110	31	77	115	176.5	$ 200.00

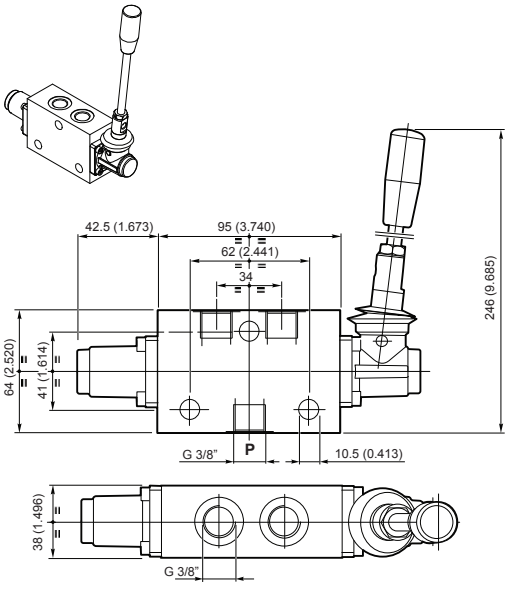


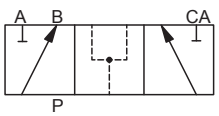


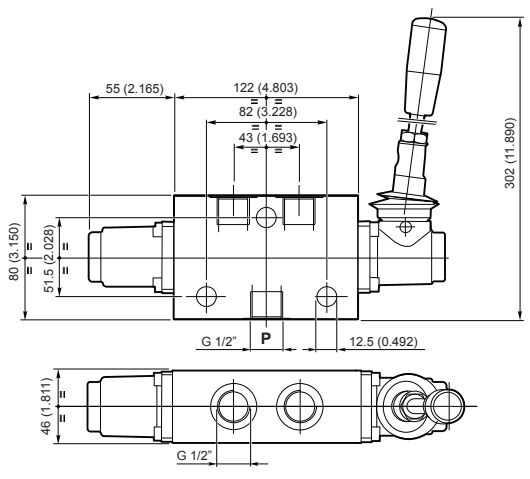
IF Diverter Valves

Manually Operated 3 Way Diverter Valve

Stock No.	Control	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
IF381A1M421	Manual	35 LPM	9 US GPM	300 BAR	4350 PSI	3/8” BSPP	$ 400.00
IF381C3M421	Cam	35 LPM	9 US GPM	300 BAR	4350 PSI	3/8” BSPP	$ 400.00
IF121A1M421	Manual	70 LPM	18 US GPM	300 BAR	4350 PSI	1/2” BSPP	$ 240.00



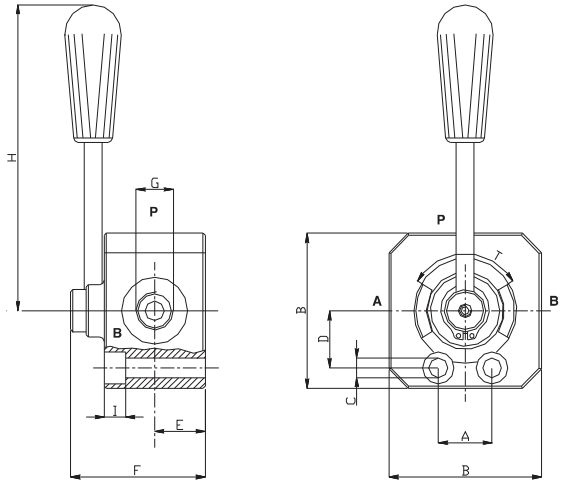




DDF3VAP Diverter Valves

Manually Operated 3 Way Rotary Diverter Valve

Stock No.	Changeover	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
DDF3VAP02A	Open	50 LPM	13 US GPM	450 BAR	6500 PSI	3/8" BSPP	$ 100.00
DDF3VAP03A	Open	80 LPM	21 US GPM	400 BAR	5800 PSI	1/2" BSPP	$ 130.00
DDF3VAP04A	Open	120 LPM	31 US GPM	350 BAR	5000 PSI	3/4" BSPP	$ 156.00
DDF3VAP05A	Open	180 LPM	47 US GPM	320 BAR	4600 PSI	1" BSPP	$ 400.00

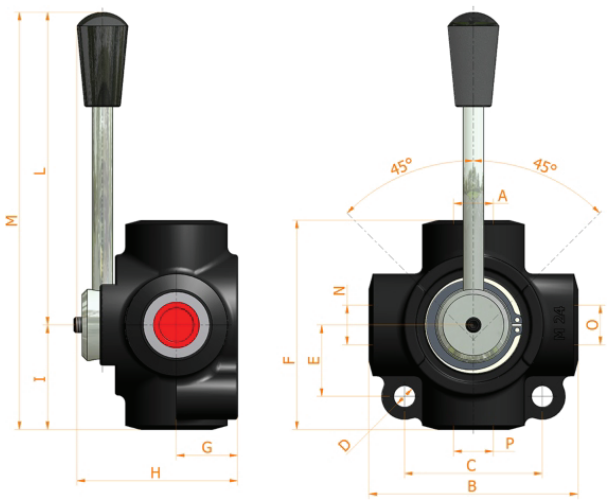


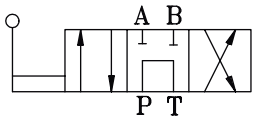
Dimension	A	B	C	D	E	F	G GAS	G NPT	G SAE	H	I	T°	Weight Kg
02	30	68	8.5	24.75	21	62	3/8	3/8	3/4-16	135	10.5	90	1.38
03	36.5	83	10.5	30	24	71	1/2	1/2	7/8-14	130	11.5	90	2.38
04	32	87	11	30.5	28	80	3/4	3/4	1 1/16-12	130	12	90	2.88
05	60	106	11	38	31.5	89	1	1	1 5/16-12	160	12	90	4.76

D4V Diverter Valves

Manually Operated 4 Way Rotary Diverter Valve - Changeover Open

Stock No.	Recommended Maximum Flow	Recommended Max. Pressure	Port Size	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	List Price
D4V14	60 LPM	350 BAR	1/4" BSPP	80	54	8.5	28	80	24	63	115	155	$ 139.00
D4V38	60 LPM	350 BAR	3/8" BSPP	80	54	8.5	28	80	24	63	115	155	$ 139.00
D4V12	90 LPM	350 BAR	1/2" BSPP	80	54	8.5	28	80	24	63	115	155	$ 176.00
D4V34	120 LPM	350 BAR	3/4" BSPP	94	74	10.5	38	94	31	77	115	162	$ 198.00
D4V1	200 LPM	300 BAR	1" BSPP	94	74	10.5	38	94	31	77	115	162	$ 250.00

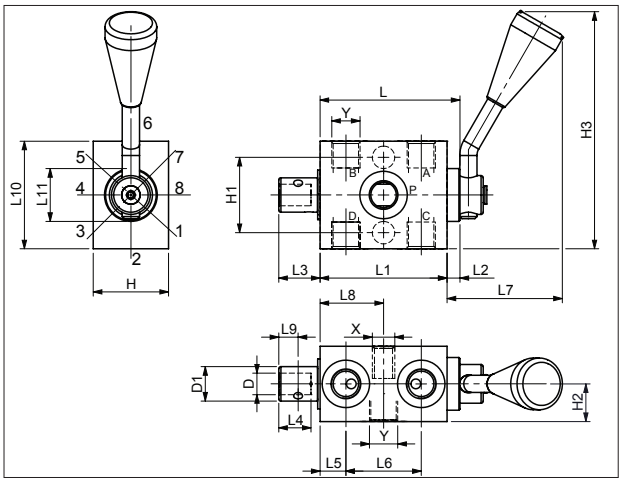


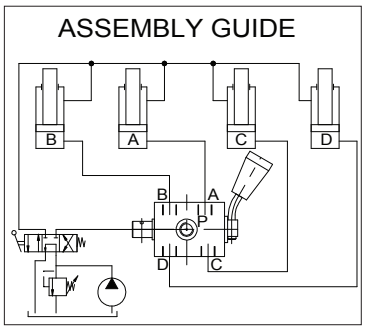


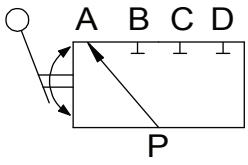
Special Diverter Valves

Manually Operated 5 Way 8 Position

Stock No.	Changeover	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
A1502010100	Closed	40 LPM	15 US GPM	700 BAR	10,000 PSI	1/4" BSPP	$ 391.00
A1504010300	Closed	70 LPM	20 US GPM	700 BAR	10,000 PSI	1/2" BSPP	$ 300.00





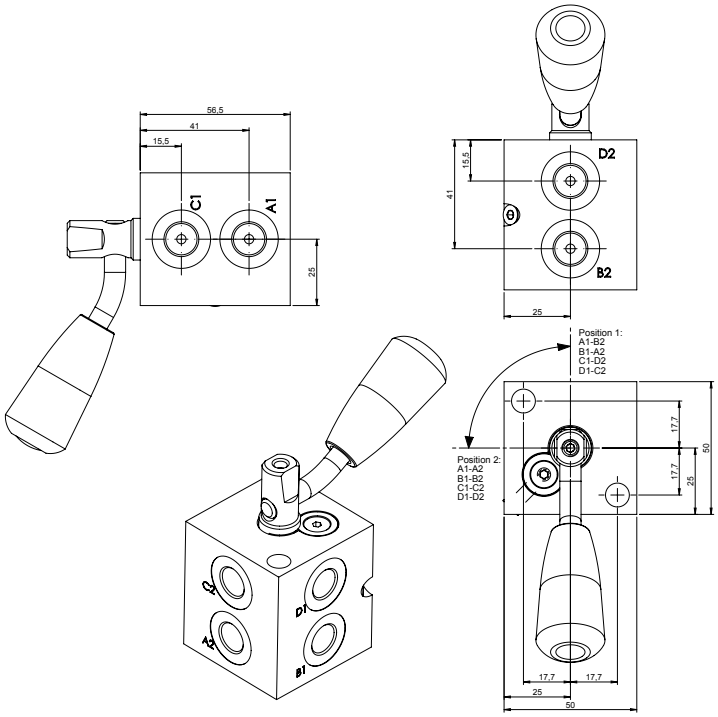


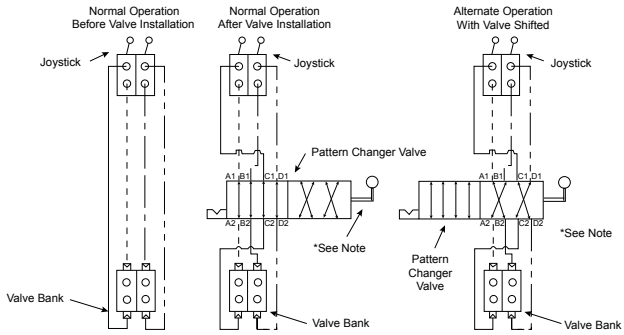
1	OPEN P ⇄ A	5	OPEN P ⇄ C
2	CLOSED	6	CLOSED
3	OPEN P ⇄ B	7	OPEN P ⇄ D
4	CLOSED	8	CLOSED

65	59	6	19	15	12	35	45	29.5	9	50	24.5	35	35	17.5	102.5	Ø10	Ø15.5	Ø4	M10	1/4" G	0.6 Kg
108	80	28	22	-	15	50	50	40	8	60	-	60	30	30	107.5	-	Ø14.5	Ø4	M10	1/2" G	2.3 Kg
L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	H	H1	H2	H3	D	D1	D2	X	Y	Weight

Manually Operated 8 Way 2 Position Pattern Changer

Stock No.	Changeover	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
DP110244	Closed	20 LPM	7 US GPM	50 BAR	725 PSI	1/4" BSPP	$ 200.00





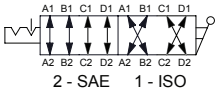
*NOTE:
Rotate valve handle 90 degrees to change joystick pattern.

Max. Pressure: 50 bar
Max. Flow: 20 l/min

Ports: G 1/4"

Position shown: 1 - ISO position

Zinc plated steel manifold

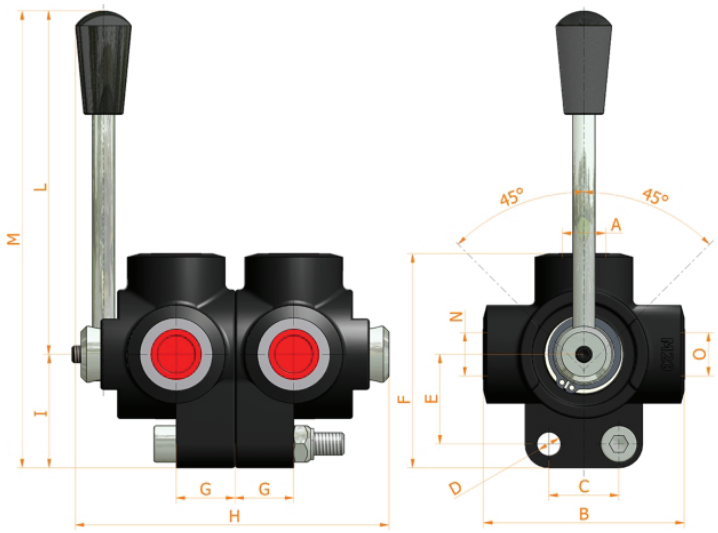


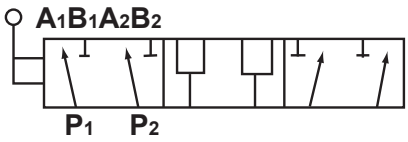
2 - SAE 1 - ISO

D6V Diverter Valves

Manually Operated 6 Way Rotary Diverter Valve - Changeover Open

Stock No.	Recommended Maximum Flow	Recommended Max. Pressure	Port Size	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	List Price
D6V14	60 + 60 LPM	350 BAR	1/4” BSPP	70	25	8.5	32	75.5	21	112	115	155.5	$ 176.00
D6V38	60 + 60 LPM	350 BAR	3/8” BSPP	70	25	8.5	32	75.5	21	112	115	155.5	$ 176.00
D6V12	60 + 90 LPM	350 BAR	1/2” BSPP	80	32	8.5	36	86	24	124	115	161	$ 217.00
D6V34	120 + 120 LPM	350 BAR	3/4” BSPP	90	32	10.5	42	98.5	26	132	115	168.5	$ 220.00
D6V1	200 + 200 LPM	300 BAR	1” BSPP	98	32	10.5	50	110	31	152	115	176.5	$ 250.00

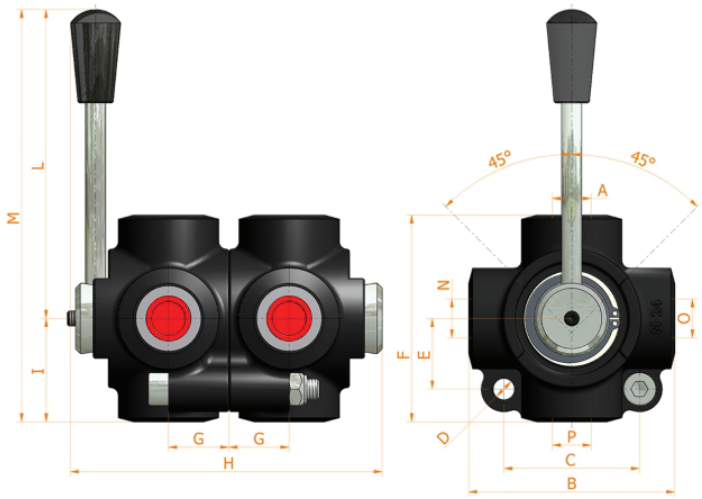


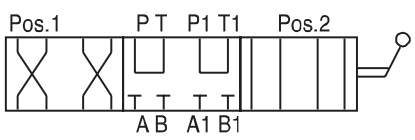


D8V Diverter Valves

Manually Operated 8 Way Rotary Diverter Valve - Changeover Open

Stock No.	Recommended Maximum Flow	Recommended Max. Pressure	Port Size	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	List Price
D8V14	60 + 60 LPM	350 BAR	1/4” BSPP	80	54	8.5	20	80	24	124	115	155	$ 285.00
D8V38	60 + 60 LPM	350 BAR	3/8” BSPP	80	54	8.5	28	80	24	124	115	155	$ 285.00
D8V12	60 + 90 LPM	350 BAR	1/2” BSPP	80	54	8.5	28	80	24	124	115	155	$ 352.00
D8V34	120 + 120 LPM	350 BAR	3/4” BSPP	94	74	10.5	38	94	31	152	115	162	$ 396.00
D8V1	200 + 200 LPM	300 BAR	1” BSPP	94	74	10.5	38	94	31	152	115	162	$ 450.00

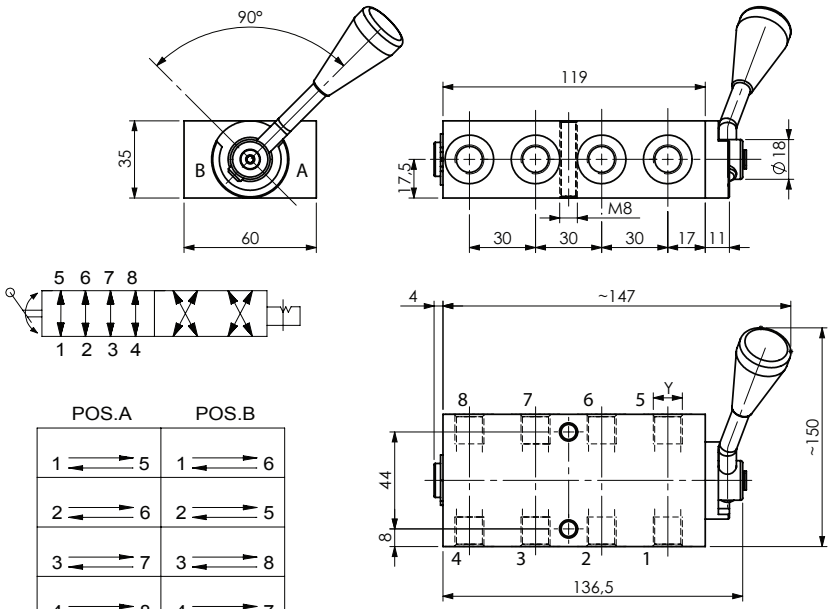




Special Diverter Valves

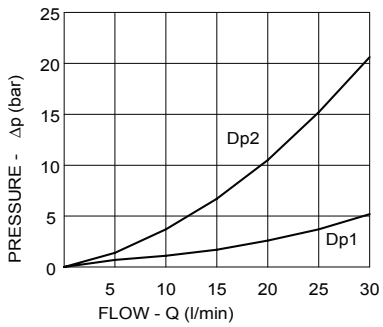
Manually Operated 8 Way 2 Position

Stock No.	Changeover	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
A1502120100	Closed	30 LPM	11 US GPM	700 BAR	10,000 PSI	1/4" BSPP	$ 450.00



POS.A	POS.B
1 ⟷ 5	1 ⟷ 6
2 ⟷ 6	2 ⟷ 5
3 ⟷ 7	3 ⟷ 8
4 ⟷ 8	4 ⟷ 7

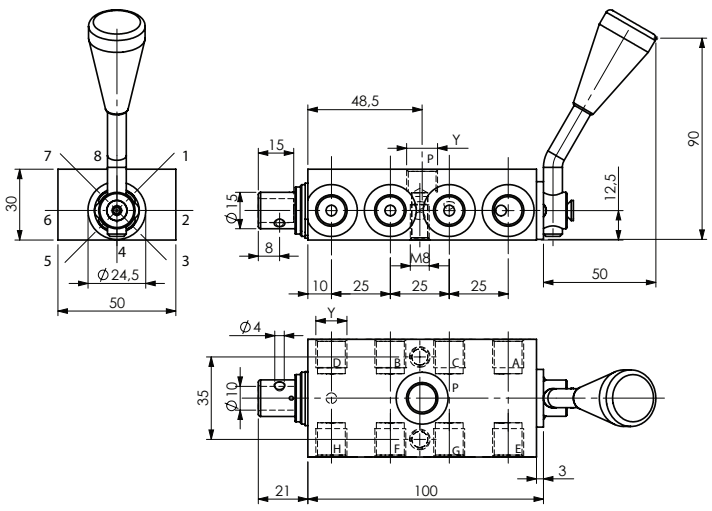
PERFORMANCE CURVES



Dp1	Dp2
1 ⟷ 5	1 ⟷ 6
2 ⟷ 6	2 ⟷ 5
3 ⟷ 7	3 ⟷ 8
4 ⟷ 8	4 ⟷ 7

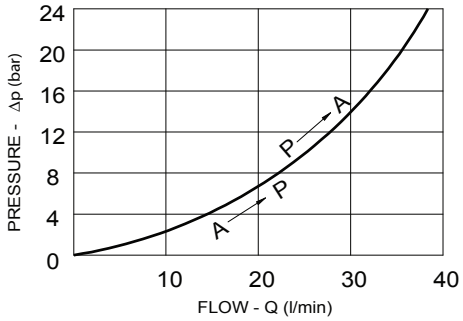
Manually Operated 9 Way 2 Position

Stock No.	Changeover	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
A1502020100	Closed	40 LPM	15 US GPM	700 BAR	10,000 PSI	1/4" BSPP	$ 350.00

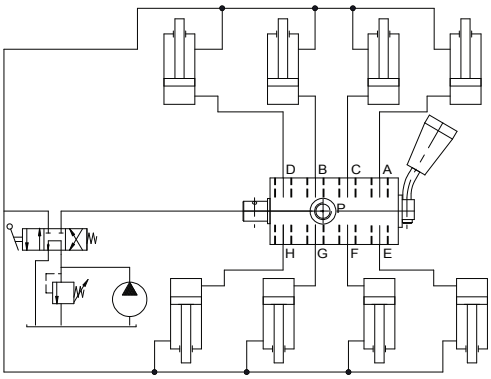


1	OPEN P ⟷ A	5	OPEN P ⟷ E
2	OPEN P ⟷ B	6	OPEN P ⟷ F
3	OPEN P ⟷ C	7	OPEN P ⟷ G
4	OPEN P ⟷ D	8	OPEN P ⟷ H

PERFORMANCE CURVES



ASSEMBLY GUIDE

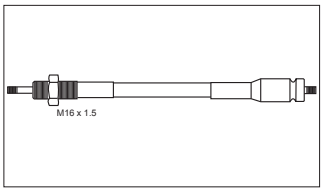


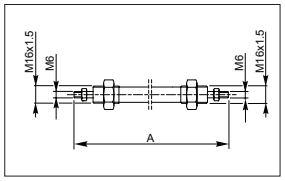
Cable Remote Controls

Controls

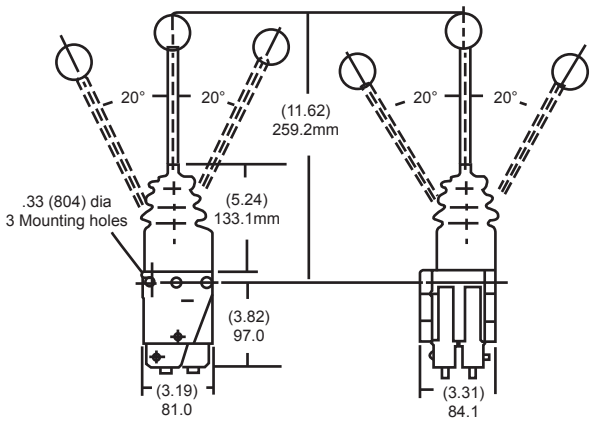
Stock No.	Type	Model	Description	List Price
212502	Single	MORSE	Remote Control Head *Use 292959*** Cable	$ 200.00
211711	Dual	MORSE	'+' Axis Joystick Assembly *Use 292959*** Cable	$ 460.00

Cables to Fit Mobile Control Valves

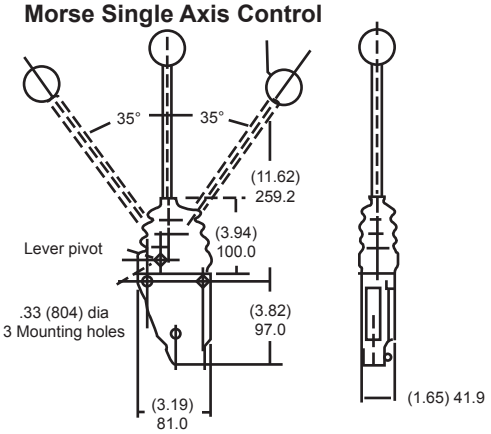
Stock No.	Type	Model	Description	List Price
292959075	Morse	750mm	RVC Cable 	$ 171.00
292959100	Morse	1000mm		$ 171.00
292959125	Morse	1250mm		$ 171.00
292959150	Morse	1500mm		$ 171.00
292959175	Morse	1750mm		$ 171.00
292959200	Morse	2000mm		$ 171.00
292959250	Morse	2500mm		$ 190.00
292959300	Morse	3000mm		$ 190.00

Stock No.	Type	Model	Description	List Price
191636075	Universal	750mm	RVC Cable 	$ 171.00
191636100	Universal	1000mm		$ 171.00
191636125	Universal	1250mm		$ 171.00
191636150	Universal	1500mm		$ 171.00
191636175	Universal	1750mm		$ 171.00
191636200	Universal	2000mm		$ 171.00
191636250	Universal	2500mm		$ 194.00
191636300	Universal	3000mm		$ 217.00

Morse Dual Axis Control



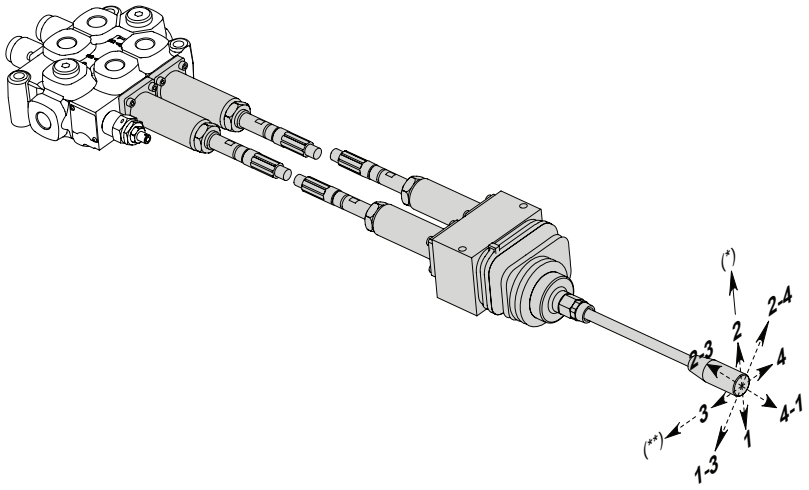
Morse Single Axis Control



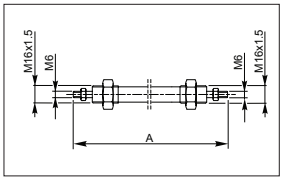
Cable Remote Controls

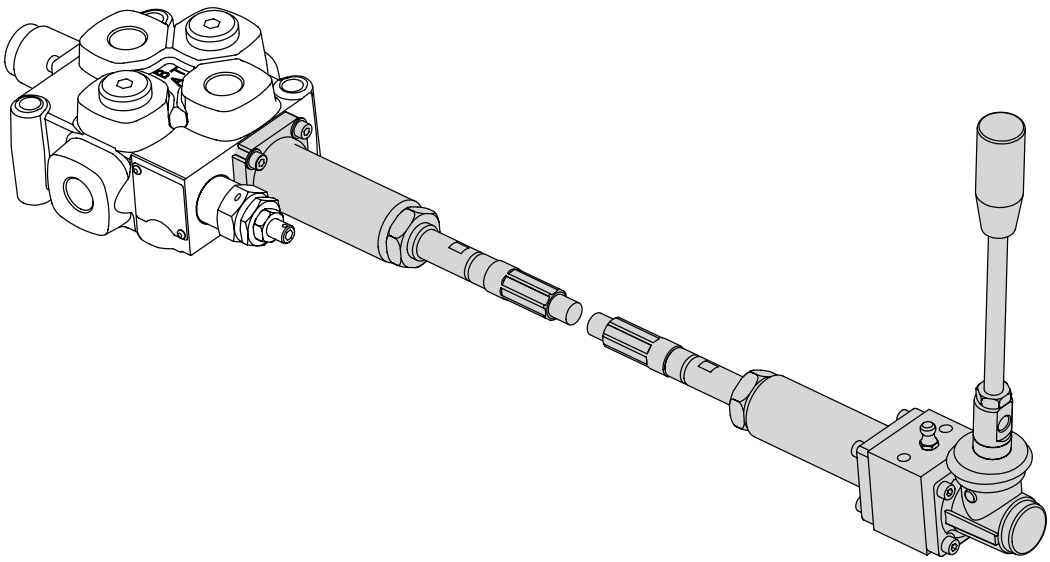
Controls

Stock No.	Type	Model	Description	List Price
760900130	Single	BUCHER	Remote Control Head	$ 200.00
03630SL03	Single	GALTECH	Remote Control Head Q35/Q45 only	$ 97.00
08630SL	Single	GALTECH	Remote Control Head Q75/Q95 only	$ 97.00
03631SLA15DU	Dual	GALTECH	'+' Axis Joystick Assembly	$ 582.00



Cables to Fit Mobile Control Valves

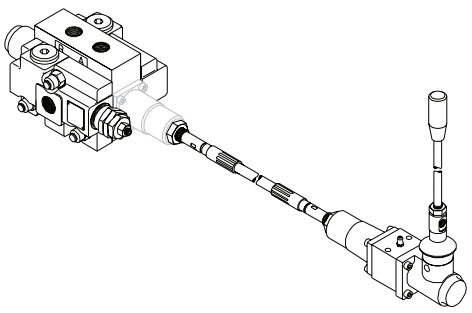
Stock No.	Type	Model	Description	List Price
C1X0750	Universal	750mm	RVC Cable 	$ 171.00
C1X1000	Universal	1000mm		$ 171.00
C1X1250	Universal	1250mm		$ 171.00
C1X1500	Universal	1500mm		$ 171.00
C1X1750	Universal	1750mm		$ 171.00
C1X2000	Universal	2000mm		$ 171.00
C1X2500	Universal	2500mm		$ 194.00
C1X3000	Universal	3000mm		$ 217.00



Cable Remote Controls

Connector Kits

Stock No.	Brand	Model	Description	List Price
212054	AMI	300 M6	Valve Connector Kit M16 x 1.5	$ 46.00
212055	AMI	300 M8	Valve Connector Kit M16 x 1.5	$ 46.00
760900030	BUCHER	HDM140,HDM/S11	Valve Connector Kit M16 x 1.5	$ 46.00
760900010	BUCHER	HDM/S 15/18	Valve Connector Kit M16 x 1.5	$ 46.00
760900020	BUCHER	HDS20/30	Valve Connector Kit M16 x 1.5	$ 46.00
212116	BADESTNOST	P40	Valve Connector Kit M16 x 1.5	$ 46.00
212065	BLB	BM70	Valve Connector Kit M16 x 1.5	$ 46.00
660170037BA	CROSS	B,C,VS4,SD4	Valve Connector Kit M16 x 1.5	$ 123.00
212042	DINOIL	BLB	Valve Connector Kit M16 x 1.5	$ 46.00
212044	DINOIL	DL	Valve Connector Kit M16 x 1.5	$ 46.00
03622A8	GALTECH	Q25,35,45	Valve Connector Kit M16 x 1.5	$ 46.00
08622A8	GALTECH	Q75,95	Valve Connector Kit M16 x 1.5	$ 66.00
212109	GALTECH	Q75,95	Valve Connector Kit M16 x 1.5	$ 66.00
211710	HYDROCONTROL	HCD2	Valve Connector Kit M16 x 1.5	$ 46.00
321972001	HYDROCONTROL	HCM45	Valve Connector Kit M16 x 1.5	$ 62.00
211624	HYDROCONTROL	HCD3/10	Valve Connector Kit M16 x 1.5	$ 46.00
212107	HYDROCONTROL	HCTR55	Valve Connector Kit M16 x 1.5	$ 46.00
321904003	HYDROCONTROL	HCD4	Valve Connector Kit M16 x 1.5	$ 80.00
212117A	OILPATH	OP10	Valve Connector Kit M16 x 1.5	$ 52.00
660170037OP	OILPATH	OP20	Valve Connector Kit M16 x 1.5	$ 130.00
660170029	PRINCE	LVS	Valve Connector Kit M16 x 1.5	$ 53.00
660170030	PRINCE	LVT/LVR	Valve Connector Kit M16 x 1.5	$ 38.00
660170031	PRINCE	SV/RD4100	Valve Connector Kit M16 x 1.5	$ 53.00
212117	PRINCE	RD	Valve Connector Kit M16 x 1.5	$ 46.00
660170035	PRINCE	SERIES 20	Valve Connector Kit M16 x 1.5	$ 53.00
660170037	PRINCE	RD500	Valve Connector Kit M16 x 1.5	$ 123.00
212083	REXROTH	SMX12	Valve Connector Kit M16 x 1.5	$ 46.00
212085	REXROTH	SX10	Valve Connector Kit M16 x 1.5	$ 46.00
212072	ROQUET	102	Valve Connector Kit M16 x 1.5	$ 46.00
212073	ROQUET	402	Valve Connector Kit M16 x 1.5	$ 46.00
212074	ROQUET	406	Valve Connector Kit M16 x 1.5	$ 46.00
212056	SALAMI	VD06	Valve Connector Kit M16 x 1.5	$ 46.00
	SALAMI	VD08	Valve Connector Kit M16 x 1.5	$ 46.00
R24175700	SALAMI	VDP08	Valve Connector Kit M16 x 1.5	$ 113.00
211623	WALVOIL	SD4/5/6	Valve Connector Kit M16 x 1.5	$ 46.00
212059	WALVOIL	SD8	Valve Connector Kit M16 x 1.5	$ 46.00
212075	WALVOIL	SDM143/DLM14	Valve Connector Kit M16 x 1.5	$ 46.00

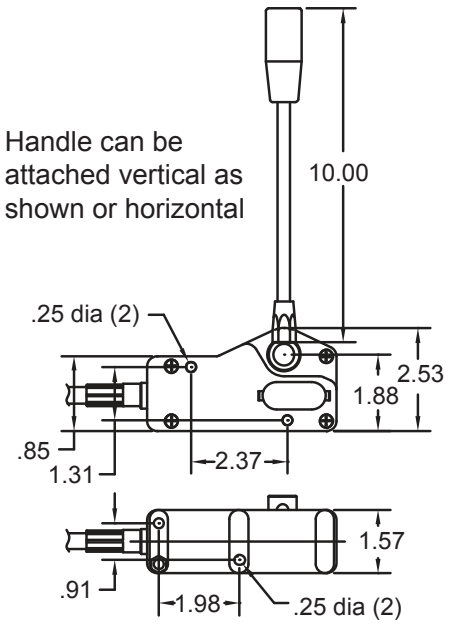


Cable Remote Controls

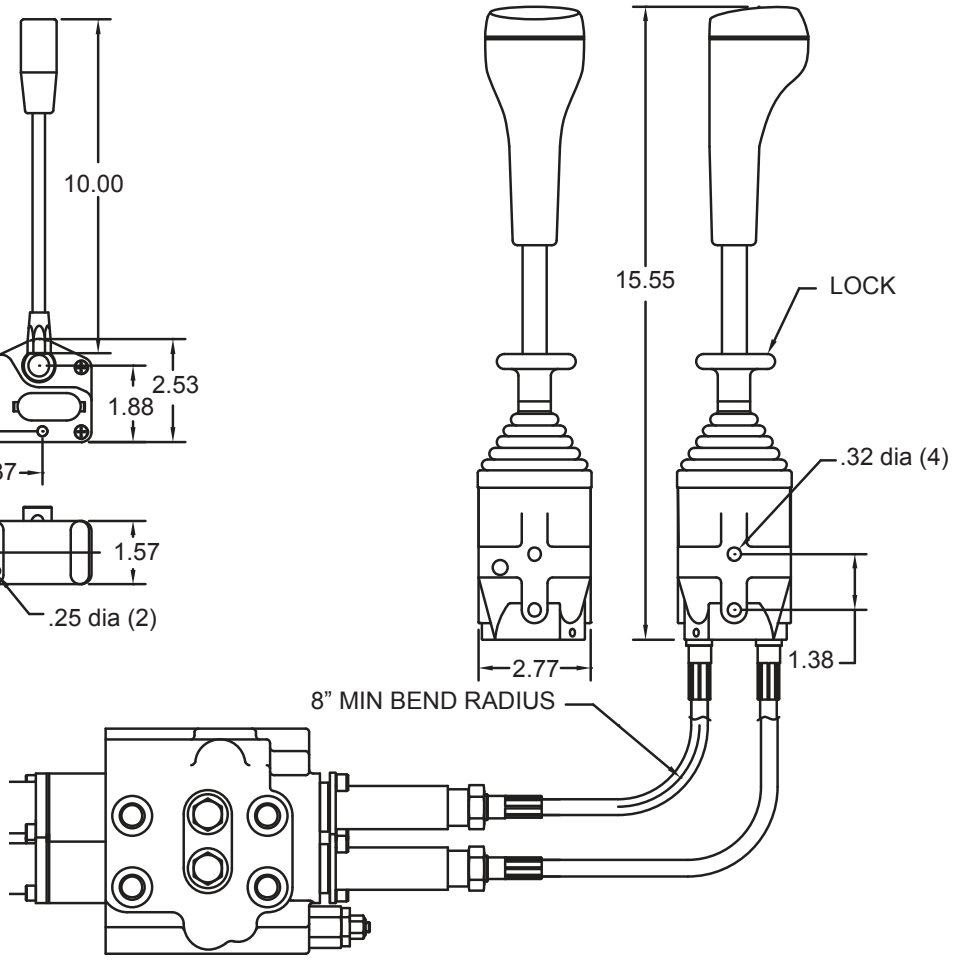
Controls

Stock No.	Type	Cable	Description	List Price
3120	Single	IC3056	Control Lever	$ 120.00
3120L	Single	IC3056	Control Lever with Lock	$ 125.00
3120AR	Single	IC3056	Control Lever with Anti Rev	$ 125.00
6020	Dual	IC741907	Joystick Ergo Grip	$ 182.00
6019	Dual	IC741907	Joystick Ergo One Button	$ 247.00
6022	Dual	IC741907	Joystick Ergo Two Button	$ 323.00
6023	Dual	IC741907	Joystick Ergo Three Button	$ 399.00
6026	Dual	IC3056	Joystick HD Ergo Grip	$ 206.00
6027	Dual	IC3056	Joystick HD Ergo Grip One Button	$ 273.00
6028	Dual	IC3056	Joystick HD Ergo Grip Two Button	$ 349.00
6029	Dual	IC3056	Joystick HD Ergo Grip Three Button	$ 425.00

3120
SINGLE SPOOL CONTROL



6026
DUAL AXIS CONTROLLER

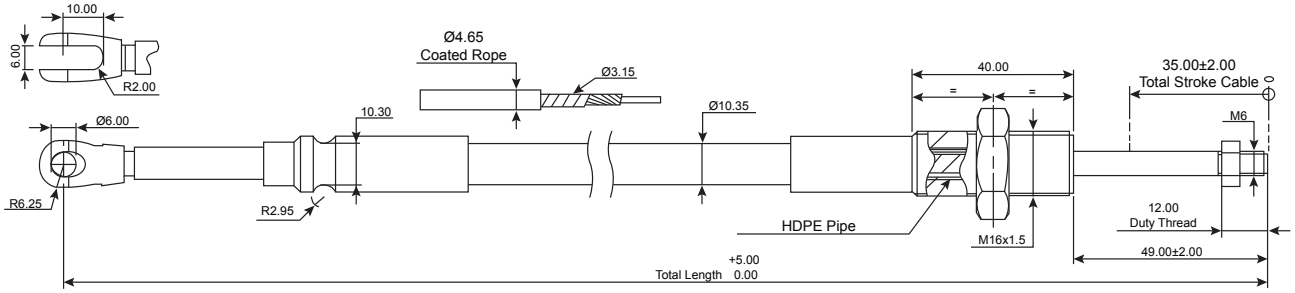


Cable Remote Controls

Control Cables

Stock No.	Type	Length	Description	List Price
IC3056-0750	Clevis	750 mm	Female Clevis M16 / M6	$ 166.00
IC3056-1000	Clevis	1000 mm	Female Clevis M16 / M6	$ 166.00
IC3056-1250	Clevis	1250 mm	Female Clevis M16 / M6	$ 166.00
IC3056-1500	Clevis	1500 mm	Female Clevis M16 / M6	$ 188.00
IC3056-1750	Clevis	1750 mm	Female Clevis M16 / M6	$ 188.00
IC3056-2000	Clevis	2000 mm	Female Clevis M16 / M6	$ 188.00
IC3056-2500	Clevis	2500 mm	Female Clevis M16 / M6	$ 197.00
IC3056-3000	Clevis	3000 mm	Female Clevis M16 / M6	$ 197.00

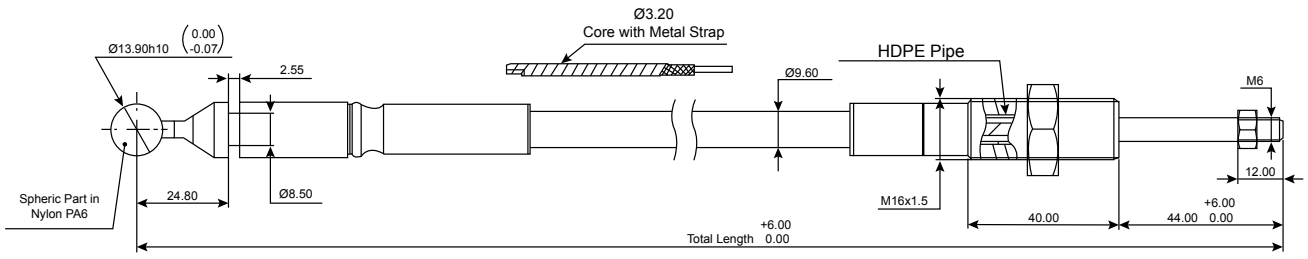
TYPE IC3056



Control Cables

Stock No.	Type	Length	Description	List Price
IC741907-0750	Ball	750 mm	Ball M16 / M6	$ 166.00
IC741907-1000	Ball	1000 mm	Ball M16 / M6	$ 166.00
IC741907-1250	Ball	1250 mm	Ball M16 / M6	$ 166.00
IC741907-1500	Ball	1500 mm	Ball M16 / M6	$ 188.00
IC741907-1750	Ball	1750 mm	Ball M16 / M6	$ 188.00
IC741907-2000	Ball	2000 mm	Ball M16 / M6	$ 188.00
IC741907-2500	Ball	2500 mm	Ball M16 / M6	$ 197.00
IC741907-3000	Ball	3000 mm	Ball M16 / M6	$ 197.00

TYPE IC741907

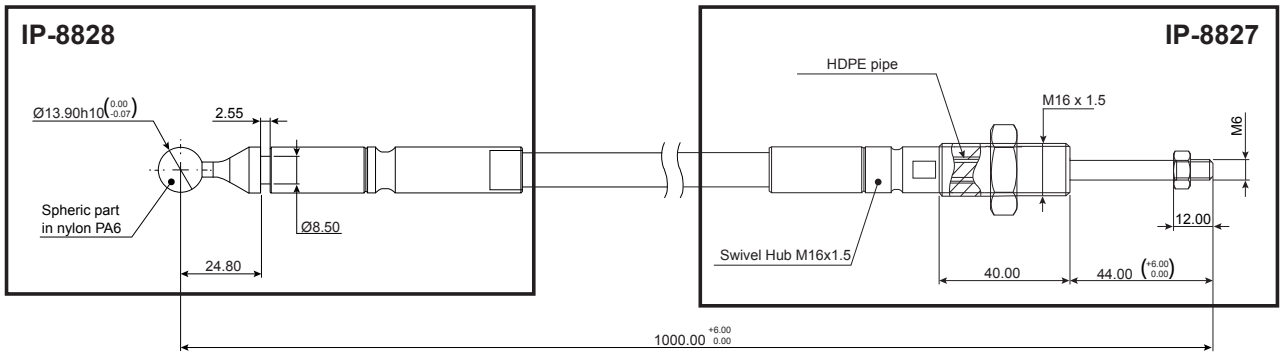


Cable Remote Controls

Control Cables

Stock No.	Type	Length	Description	List Price
IC741910-0750	Ball	750 mm	Ball M16 / M6	$ 166.00
IC741910-1000	Ball	1000 mm	Ball M16 / M6	$ 166.00
IC741910-1250	Ball	1250 mm	Ball M16 / M6	$ 166.00
IC741910-1500	Ball	1500 mm	Ball M16 / M6	$ 188.00
IC741910-1750	Ball	1750 mm	Ball M16 / M6	$ 188.00
IC741910-2000	Ball	2000 mm	Ball M16 / M6	$ 188.00
IC741910-2500	Ball	2500 mm	Ball M16 / M6	$ 197.00
IC741910-3000	Ball	3000 mm	Ball M16 / M6	$ 197.00

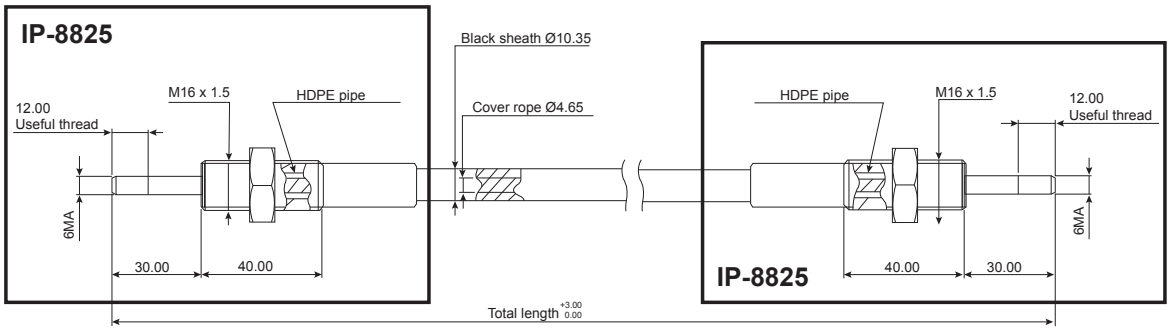
TYPE IC741910



Control Cables

Stock No.	Type	Length	Description	List Price
IC741112-0750	Universal	750 mm	Fixed M16 / M6	$ 166.00
IC741112-1000	Universal	1000 mm	Fixed M16 / M6	$ 166.00
IC741112-1250	Universal	1250 mm	Fixed M16 / M6	$ 166.00
IC741112-1500	Universal	1500 mm	Fixed M16 / M6	$ 188.00
IC741112-1750	Universal	1750 mm	Fixed M16 / M6	$ 188.00
IC741112-2000	Universal	2000 mm	Fixed M16 / M6	$ 188.00
IC741112-2500	Universal	2500 mm	Fixed M16 / M6	$ 197.00
IC741112-3000	Universal	3000 mm	Fixed M16 / M6	$ 197.00

TYPE IC741112

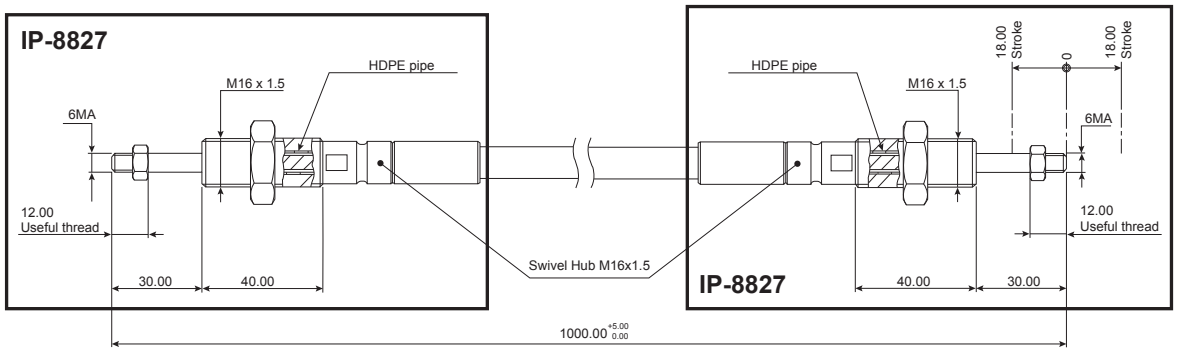


Cable Remote Controls

Control Cables

Stock No.	Type	Length	Description	List Price
IC741906-0750	Universal	750 mm	Swivel M16 / M6	$ 207.00
IC741906-1000	Universal	1000 mm	Swivel M16 / M6	$ 207.00
IC741906-1250	Universal	1250 mm	Swivel M16 / M6	$ 207.00
IC741906-1500	Universal	1500 mm	Swivel M16 / M6	$ 227.00
IC741906-1750	Universal	1750 mm	Swivel M16 / M6	$ 227.00
IC741906-2000	Universal	2000 mm	Swivel M16 / M6	$ 227.00
IC741906-2500	Universal	2500 mm	Swivel M16 / M6	$ 238.00
IC741906-3000	Universal	3000 mm	Swivel M16 / M6	$ 238.00

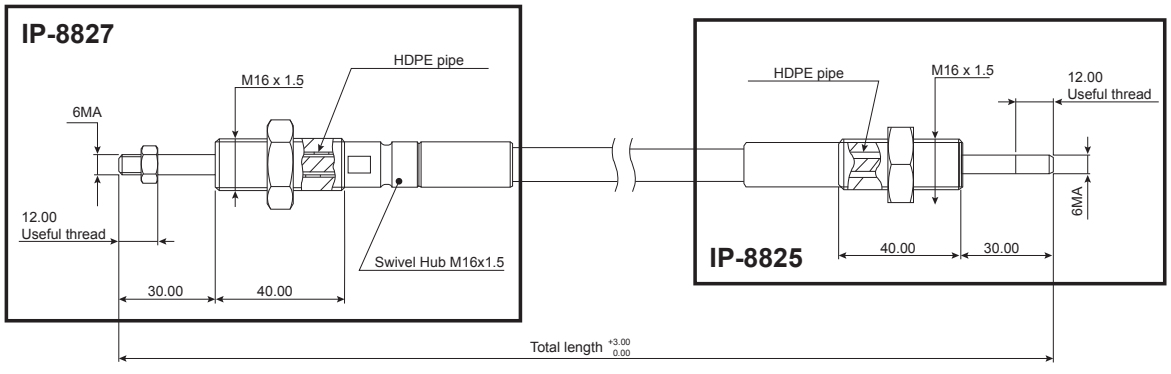
TYPE IC741906



Control Cables

Stock No.	Type	Length	Description	List Price
IC741912-0750	Universal	750 mm	Swivel M16 / M6 - Fixed M16 / M6	$ 207.00
IC741912-1000	Universal	1000 mm	Swivel M16 / M6 - Fixed M16 / M6	$ 207.00
IC741912-1250	Universal	1250 mm	Swivel M16 / M6 - Fixed M16 / M6	$ 207.00
IC741912-1500	Universal	1500 mm	Swivel M16 / M6 - Fixed M16 / M6	$ 227.00
IC741912-1750	Universal	1750 mm	Swivel M16 / M6 - Fixed M16 / M6	$ 227.00
IC741912-2000	Universal	2000 mm	Swivel M16 / M6 - Fixed M16 / M6	$ 227.00
IC741912-2500	Universal	2500 mm	Swivel M16 / M6 - Fixed M16 / M6	$ 238.00
IC741912-3000	Universal	3000 mm	Swivel M16 / M6 - Fixed M16 / M6	$ 238.00

TYPE IC741912

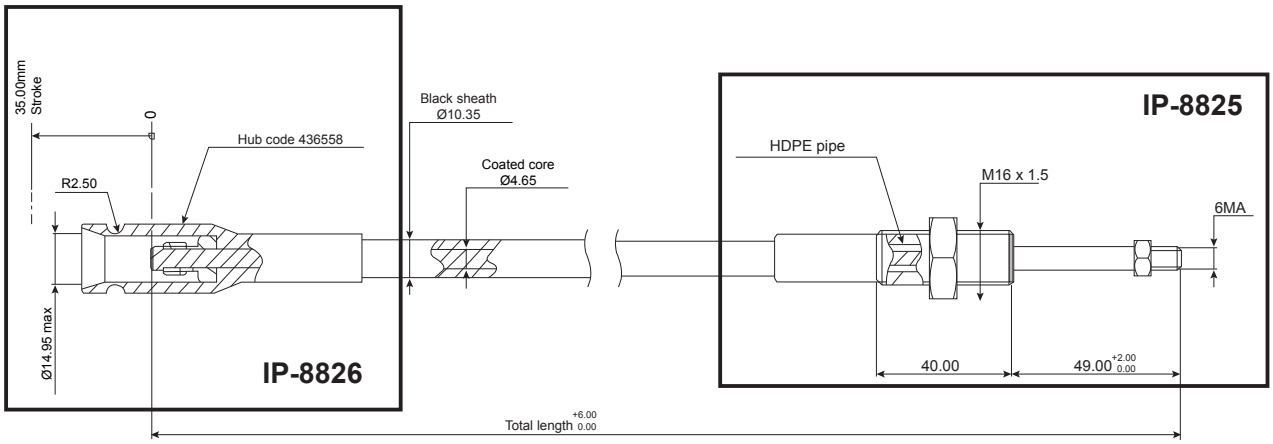


Cable Remote Controls

Control Cables

Stock No.	Type	Length	Description	List Price
IC741670-0750	Morse	750 mm	Hub M16 / M6	$ 227.00
IC741670-1000	Morse	1000 mm	Hub M16 / M6	$ 227.00
IC741670-1250	Morse	1250 mm	Hub M16 / M6	$ 227.00
IC741670-1500	Morse	1500 mm	Hub M16 / M6	$ 249.00
IC741670-1750	Morse	1750 mm	Hub M16 / M6	$ 249.00
IC741670-2000	Morse	2000 mm	Hub M16 / M6	$ 249.00
IC741670-2500	Morse	2500 mm	Hub M16 / M6	$ 260.00
IC741670-3000	Morse	3000 mm	Hub M16 / M6	$ 260.00

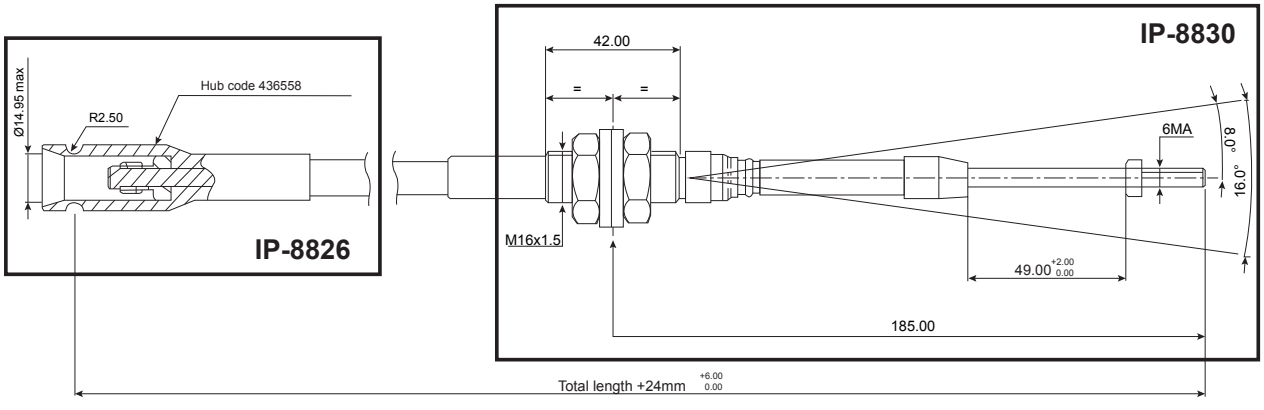
TYPE IC741670



Control Cables

Stock No.	Type	Length	Description	List Price
IC741635-0750	Morse	750 mm	Hub M16 / M6 Bulkhead	$ 249.00
IC741635-1000	Morse	1000 mm	Hub M16 / M6 Bulkhead	$ 249.00
IC741635-1250	Morse	1250 mm	Hub M16 / M6 Bulkhead	$ 249.00
IC741635-1500	Morse	1500 mm	Hub M16 / M6 Bulkhead	$ 269.00
IC741635-1750	Morse	1750 mm	Hub M16 / M6 Bulkhead	$ 269.00
IC741635-2000	Morse	2000 mm	Hub M16 / M6 Bulkhead	$ 269.00
IC741635-2500	Morse	2500 mm	Hub M16 / M6 Bulkhead	$ 279.00

TYPE IC741635

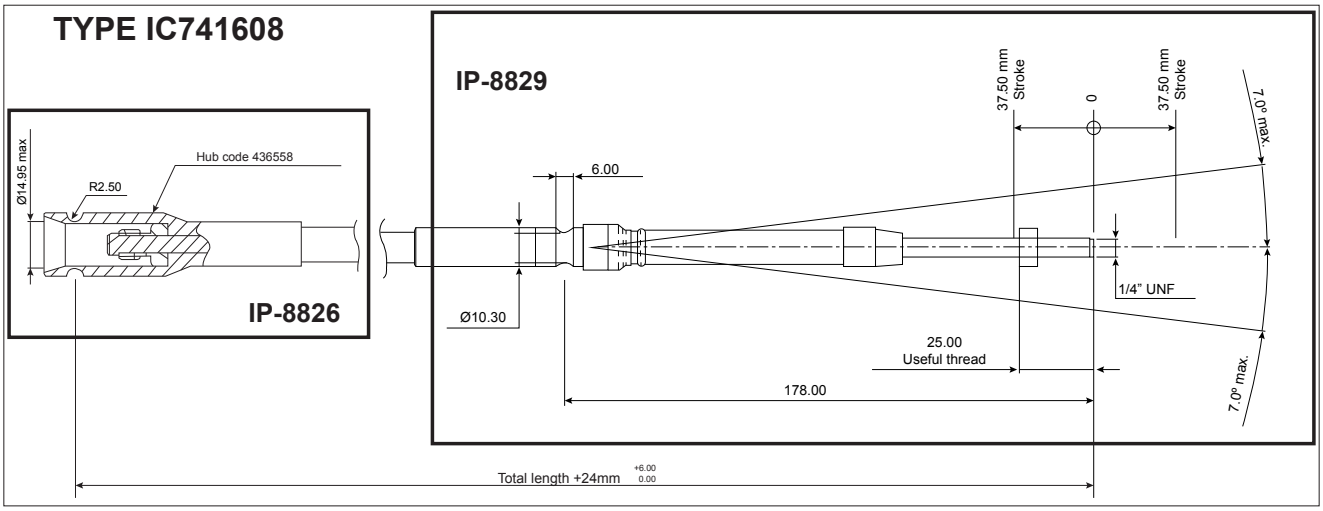


Cable Remote Controls

Control Cables

Stock No.	Type	Length	Description	List Price
IC741608-0750	Morse	750 mm	Hub - Bayonet 1/4" UNF	$ 227.00
IC741608-1000	Morse	1000 mm	Hub - Bayonet 1/4" UNF	$ 227.00
IC741608-1250	Morse	1250 mm	Hub - Bayonet 1/4" UNF	$ 227.00
IC741608-1500	Morse	1500 mm	Hub - Bayonet 1/4" UNF	$ 249.00
IC741608-1750	Morse	1750 mm	Hub - Bayonet 1/4" UNF	$ 249.00
IC741608-2000	Morse	2000 mm	Hub - Bayonet 1/4" UNF	$ 249.00
IC741608-2500	Morse	2500 mm	Hub - Bayonet 1/4" UNF	$ 260.00
IC741608-3000	Morse	3000 mm	Hub - Bayonet 1/4" UNF	$ 260.00

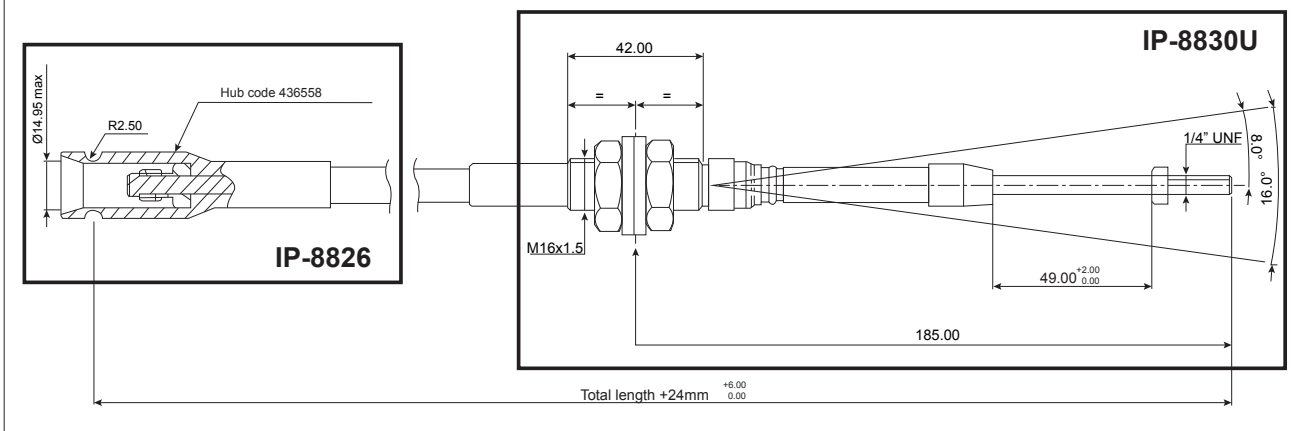
TYPE IC741608



Control Cables

Stock No.	Type	Length	Description	List Price
IC741635U-0750	Morse	750 mm	Hub M16 / M6 Bulkhead	$ 249.00
IC741635U-1000	Morse	1000 mm	Hub M16 / M6 Bulkhead	$ 249.00
IC741635U-1250	Morse	1250 mm	Hub M16 / M6 Bulkhead	$ 249.00
IC741635U-1500	Morse	1500 mm	Hub M16 / M6 Bulkhead	$ 269.00
IC741635U-1750	Morse	1750 mm	Hub M16 / M6 Bulkhead	$ 269.00
IC741635U-2000	Morse	2000 mm	Hub M16 / M6 Bulkhead	$ 269.00
IC741635U-2500	Morse	2500 mm	Hub M16 / M6 Bulkhead	$ 279.00

TYPE IC741635U

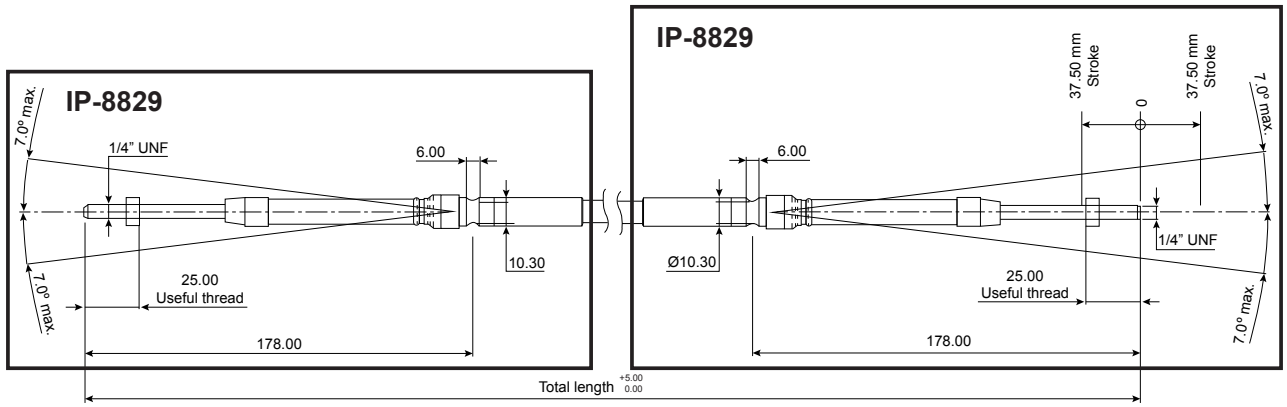


Cable Remote Controls

Control Cables

Stock No.	Type	Length	Description	List Price
IC441319-0750	Morse	750 mm	Bayonet 1/4” UNF	$ 227.00
IC441319-1000	Morse	1000 mm	Bayonet 1/4” UNF	$ 227.00
IC441319-1250	Morse	1250 mm	Bayonet 1/4” UNF	$ 227.00
IC441319-1500	Morse	1500 mm	Bayonet 1/4” UNF	$ 249.00
IC441319-1750	Morse	1750 mm	Bayonet 1/4” UNF	$ 249.00
IC441319-2000	Morse	2000 mm	Bayonet 1/4” UNF	$ 249.00
IC441319-2500	Morse	2500 mm	Bayonet 1/4” UNF	$ 260.00
IC441319-3000	Morse	3000 mm	Bayonet 1/4” UNF	$ 260.00

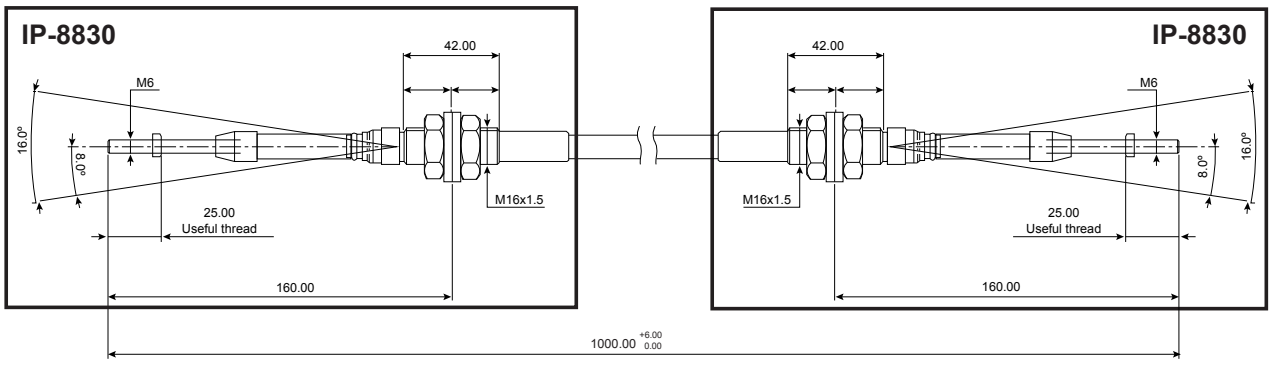
TYPE IC441319



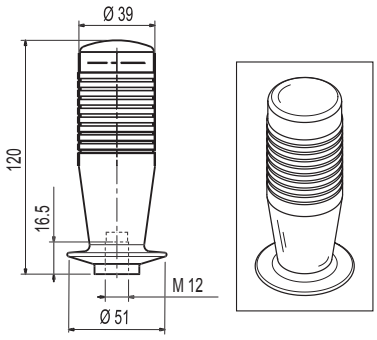
Control Cables

Stock No.	Type	Length	Description	List Price
IC741908-0750	Bulkhead	750 mm	Bulkhead M16 / M6	$ 249.00
IC741908-1000	Bulkhead	1000 mm	Bulkhead M16 / M6	$ 249.00
IC741908-1250	Bulkhead	1250 mm	Bulkhead M16 / M6	$ 249.00
IC741908-1500	Bulkhead	1500 mm	Bulkhead M16 / M6	$ 269.00
IC741908-1750	Bulkhead	1750 mm	Bulkhead M16 / M6	$ 269.00
IC741908-2000	Bulkhead	2000 mm	Bulkhead M16 / M6	$ 269.00
IC741908-2500	Bulkhead	2500 mm	Bulkhead M16 / M6	$ 279.00

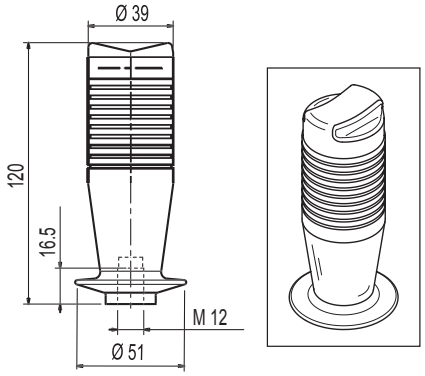
TYPE IC741908



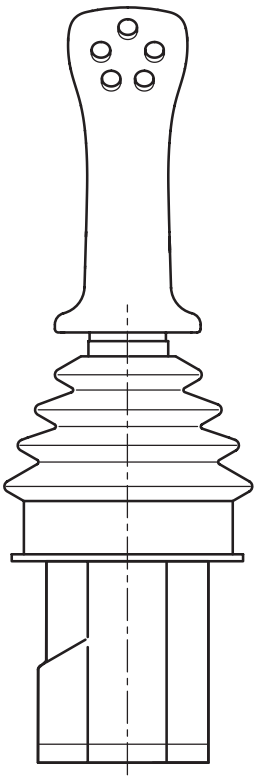
Hydraulic Remote Controls RCX



Handle Type ‘A & B’



Handle Type ‘C,D, E’



Handle Type ‘F’

Technical Specifications	
Maximum input pressure	100 bar
Maximum back pressure on tank line	3 bar
Oil input capacity	16 l/min
Hysteresis	0.9 bar
Hydraulic fluid	Mineral oil
Fluid temperature range	-20+80°C
Fluid viscosity range	10÷300 Cst
Recommended filtration	25 µ Absolute
Recommended operating pipes	8mm dia rigid, 1/4” BSP flexible
Body	Cast iron
Plunger	Stainless steel
Plunger guide	Brass
Handles Microswitch Breaking	
Direct current	Load resistive 4.8A/30 VDC
Alternating current	Load resistive 1.5A/250 VAC
Protection	IP 40

RCX STYLE

Stock No.	Model Code	Description	Metering Curve	List Price
RCX01A01	HCRCX01A01MAAWA27RAG02	Hydraulic Remote Control Joystick	6 - 20 bar	$ 627.00
RCX01A02	HCRCX01A02MAAWA27RAG02	Hydraulic Remote Control Joystick	5 - 25 bar	$ 627.00
RCX01A03	HCRCX01A03MAAWA27RAG02	Hydraulic Remote Control Joystick	2 - 13 bar	$ 649.00
RCX01A04	HCRCX01A06MAAWA27RAG02	Hydraulic Remote Control Joystick	6 - 40 bar	$ 649.00
RCX01A05	HCRCX01A05MAAWA27RAG02	Hydraulic Remote Control Joystick	0 - 64 bar	$ 649.00
RCX01A06	HCRCX01A06MAAWA27RAG02	Hydraulic Remote Control Joystick	4 - 17 bar	$ 649.00
RCX01A07	HCRCX01A07MAAWA27RAG02	Hydraulic Remote Control Joystick	5 - 15 bar	$ 649.00
RCX01A08	HCRCX01A08MAAWA27RAG02	Hydraulic Remote Control Joystick	2 - 18 bar	$ 627.00
RCX01A09	HVRCX01A09MAAWA27RAG02	Hydraulic Remote Control Joystick	5 - 20 bar	$ 649.00
RCX01C01	HCRCX01A10MAAWA27RAG02	Hydraulic Remote Control Joystick	2 - 15 bar	$ 649.00

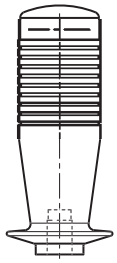
RCX Options and Accessories

Stock No.	Model Code	Description	List Price
RCXAWA27	Type A	Handle without Microswitch (Standard)	$ 44.00
RCXBWA27	Type B	Handle with Microswitch to Close	$ 169.00
RCXDWA27	Type D	Handle with Dual Microswitch	$ 169.00
RCXDWB52	Type D 15°	Handle with Dual Microswitch 15° Angle	$ 169.00

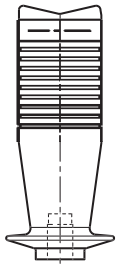
Ergonomic Handles to suit RCX

RCX Options and Accessories

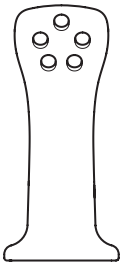
Stock No.	Model Code	Description		Mounting	List Price
320000004	Type F	00F-01R	1 Button Rear	12mm Male Shaft	$ 116.00
320000005	Type F	00F-02R	2 Buttons Rear	12mm Hole with Pin	$ 162.00
320000006	Type F	00F-03R	3 Buttons Rear	12mm Hole with Pin	$ 154.00
320000007	Type F	00F-04R	4 Buttons Rear	12mm Hole with Pin	$ 204.00
320000008	Type F	00F-05R	5 Buttons Rear	12mm Hole with Pin	$ 238.00
320000009	Type F	01F-00R	1 Button Front	12mm Hole with Pin	$ 129.00
320000015	Type F	02F-00R	2 Buttons Front	12mm Hole with Pin	$ 138.00
320000021	Type F	03F-00R	3 Buttons Front	12mm Hole with Pin	$ 154.00
320000022	Type F	03F-01R	3 Buttons Front - 1 Rear	12mm Hole with Pin	$ 224.00
320000024	Type F	03F-03R	3 Buttons Front - 1 Rear Switch	12mm Hole with Pin	$ 267.00
320000027	Type F	04F-00R	4 Buttons Front	12mm Hole with Pin	$ 246.00
320000032	Type F	04F-05R	4 Buttons Front - 3 Rear	12mm Hole with Pin	$ 441.00
320000033	Type F	05F-00R	5 Buttons Front	12mm Hole with Pin	$ 281.00
320000037	Type F	05F-04R	5 Buttons Front - 2 Rear	12mm Hole with Pin	$ 425.00
320000038	Type F	05F-05R	5 Buttons Front - 3 Rear	12mm Hole with Pin	$ 482.00



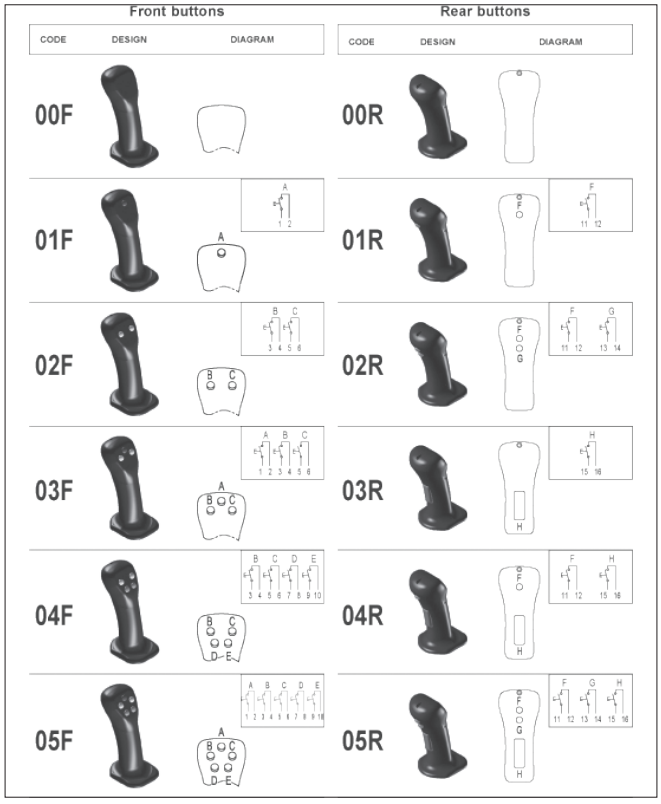
Handle Type ‘A & B’



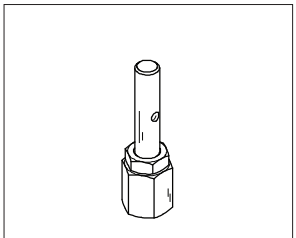
Handle Type ‘C,D, E’



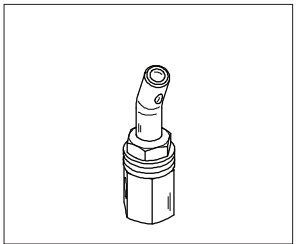
Handle Type ‘F’



‘F’ Type Handle Adaptors
12mm Female Thread

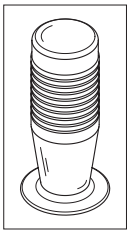


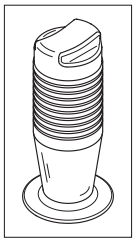
430533025	$ 33.00

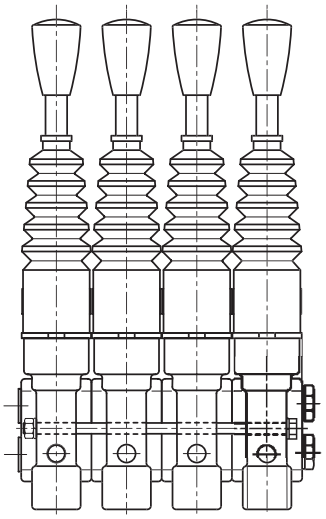


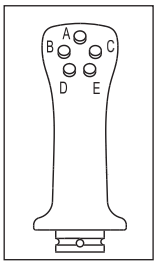
430533027	$ 33.00

Hydraulic Remote Controls RCM

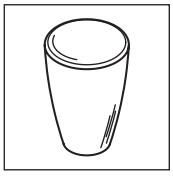

Handle Type 'A & B'


Handle Type 'C,D, E'





Handle Type 'F'


Type M

Technical Specifications	
Maximum input pressure	100 bar
Maximum back pressure on tank line	3 bar
Oil input capacity	16 l/min
Hysteresis	0.9 bar
Hydraulic fluid	Mineral oil
Fluid temperature range	-20+80°C
Fluid viscosity range	10÷300 Cst
Recommended filtration	25 µ Absolute
Recommended operating pipes	8mm dia rigid, 1/4" BSP flexible
Body	Cast iron
Plunger	Stainless steel
Plunger guide	Brass
Handles Microswitch Breaking	
Direct current	Load resistive 4.8A/30 VDC
Alternating current	Load resistive 1.5A/250 VAC
Protection	IP 40

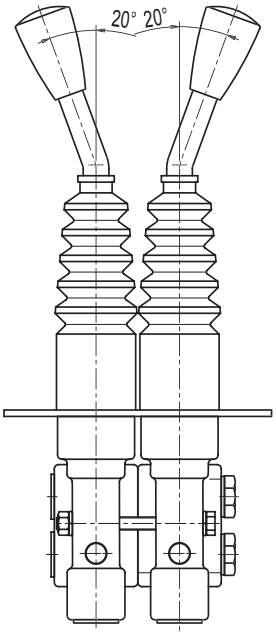
RCM STYLE

Stock No.	Model Code	Description	Metering Curve	List Price
RCM101A01	HCRCM101A01MAMWE95RAG02	Hydraulic Remote Control Single	6 - 20 bar	$ 407.00
RCM101A02	HCRCM101A02MAMWE95RAG02	Hydraulic Remote Control Single	5 - 25 bar	$ 407.00
RCM101A03	HCRCM101A03MAMWE95RAG02	Hydraulic Remote Control Single	2 - 13 bar	$ 407.00
RCM101A04	HCRCM101A04MAMWE95RAG02	Hydraulic Remote Control Single	6 - 40 bar	$ 407.00
RCM101A05	HCRCM101A05MAMWE95RAG02	Hydraulic Remote Control Single	0 - 64 bar	$ 407.00
RCM101A06	HCRCM101A06MAMWE95RAG02	Hydraulic Remote Control Single	4 - 17 bar	$ 407.00
RCM101A07	HCRCM101A07MAMWE95RAG02	Hydraulic Remote Control Single	5 - 15 bar	$ 407.00
RCM101A08	HCRCM101A08MAMWE95RAG02	Hydraulic Remote Control Single	2 - 18 bar	$ 407.00
RCM101A09	HCRCM101A09MAMWE95RAG02	Hydraulic Remote Control Single	5 - 20 bar	$ 407.00
RCM101C01	HCRCM101C01MAMWE95RAG02	Hydraulic Remote Control Single	2 - 15 bar	$ 407.00
RCM102***	HCRCM102***MAMWE95RAG02	Hydraulic Remote Control Single Detent Pos. 1 & 2		$ 506.00
RCM103***	HCRCM103***MAMWE95RAG02	Hydraulic Remote Control Single Detent Pos. 1		$ 506.00
RCM104***	HCRCM104***MAMWE95RAG02	Hydraulic Remote Control Single Detent Pos. 2		$ 506.00
RCM105***	HCRCM105***MAMWE95RAG02	Hydraulic Remote Control Single Security Handle		$ 544.00
RCM106***	HCRCM106***MAMWE95RAG02	Hydraulic Remote Control Single Friction Detent		$ 566.00
RCM107***	HCRCM107***MAMWE95RAG02	Hydraulic Remote Control Single Security & Friction		$ 605.00
RCM108***	HCRCM108***MAMWE95RAG02	Hydraulic Remote Control Single Security & Detent Pos. 1 & 2		$ 638.00
RCM112***	HCRCM112***MAMWE95RAG02	Hydraulic Remote Control Single Security & Microswitch		$ 572.00
***** Denotes Metering Curve e.g. A01 (6 - 20 Bar)**				

RCM Options and Accessories

Stock No.	Model Code	Description	List Price
RCMMWE70	Type M	Handle with Lens	$ 28.00
RCMBWA70	Type B	Handle with Microswitch to Close	$ 169.00
RCMDWA70	Type D	Handle with Dual Microswitch	$ 169.00
Note: Handle Type A, B, C, D, E, F available for HCRCM 1 only (Not suitable for Multi Section Assembly)			

Hydraulic Remote Controls RCB



HC-RCB

Technical Specifications	
Maximum input pressure	100 bar
Maximum back pressure on tank line	3 bar
Oil input capacity	16 l/min
Hysteresis	0.9 bar
Hydraulic fluid	Mineral oil
Fluid temperature range	-20+80°C
Fluid viscosity range	10÷300 Cst
Recommended filtration	25 µ Absolute
Recommended operating pipes	8mm dia rigid, 1/4" BSP flexible
Body	Cast iron
Plunger	Stainless steel
Plunger guide	Brass
Handles Microswitch Breaking	
Direct current	Load resistive 4.8A/30 VDC
Alternating current	Load resistive 1.5A/250 VAC
Protection	IP 40

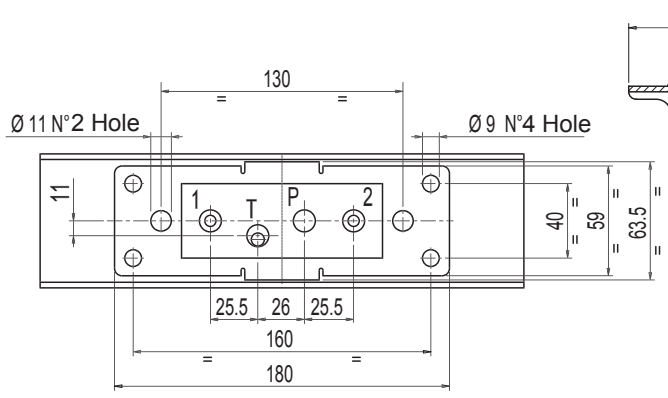
RCB STYLE

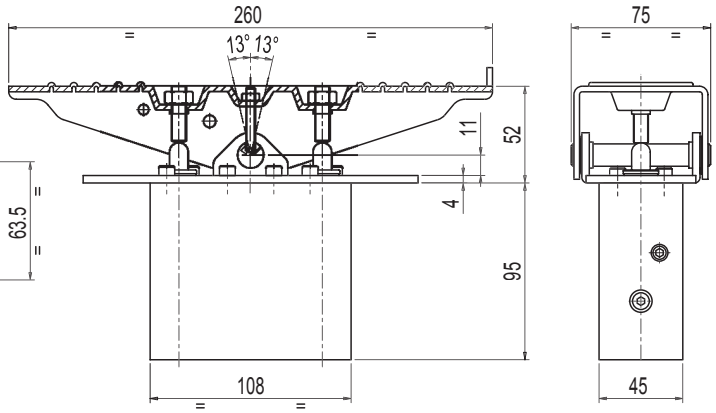
Stock No.	Model Code	Description	Metering Curve	List Price
RCB01A02	HCRCB01A02MAMWP10002A02MAMWP100RAG02	Hydraulic Remote Control Double	5 - 25 bar	$ 945.00
RCB01A04	HCRCB01A04MAMWP10002A04MAMWP100RAG02	Hydraulic Remote Control Double	6 - 40 bar	$ 945.00
RCB01***	HCRCB01***MAMWP10002***MAMWP100RAG02	Hydraulic Remote Control Double	-	$ 945.00
***** Denotes Metering Curve e.g. A01 (6 - 20 Bar)**				

Hydraulic Remote Controls RCF

RCF STYLE

Stock No.	Model Code	Description	Metering Curve	List Price
RCF04SA01	HCRCF04SA01MARAG02	Hydraulic Remote Control Foot Pedal	6 - 20 bar	$ 684.00
RCF04SA02	HCRCF04SA02MARAG02	Hydraulic Remote Control Foot Pedal	5 - 25 bar	$ 684.00
RCF04S***	HCRCF04S***MARAG02	Hydraulic Remote Control Foot Pedal	-	$ 684.00
***** Denotes Metering Curve e.g. A01 (6 - 20 Bar)**				

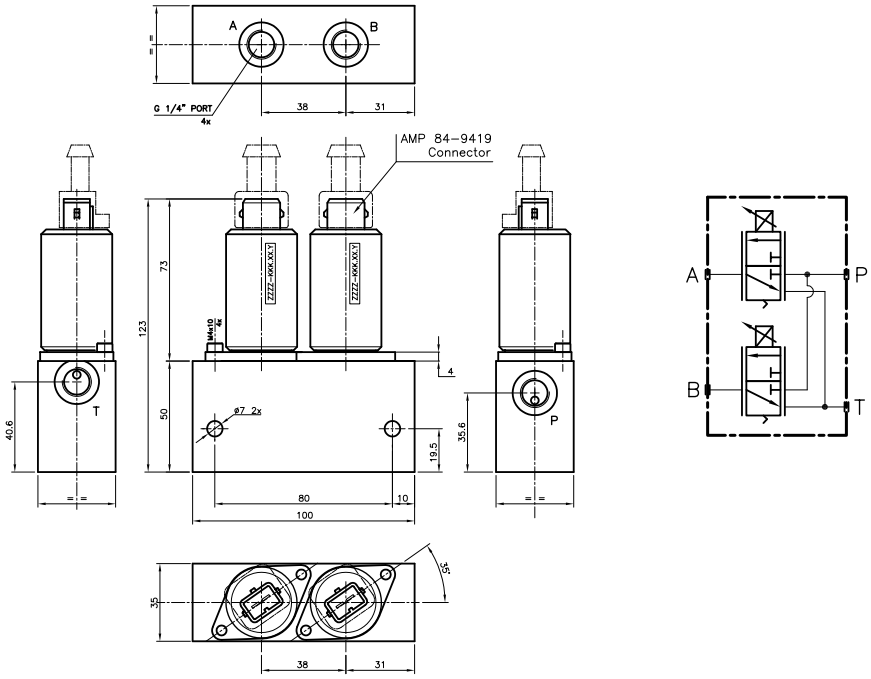




Proportional Pilot Manifolds

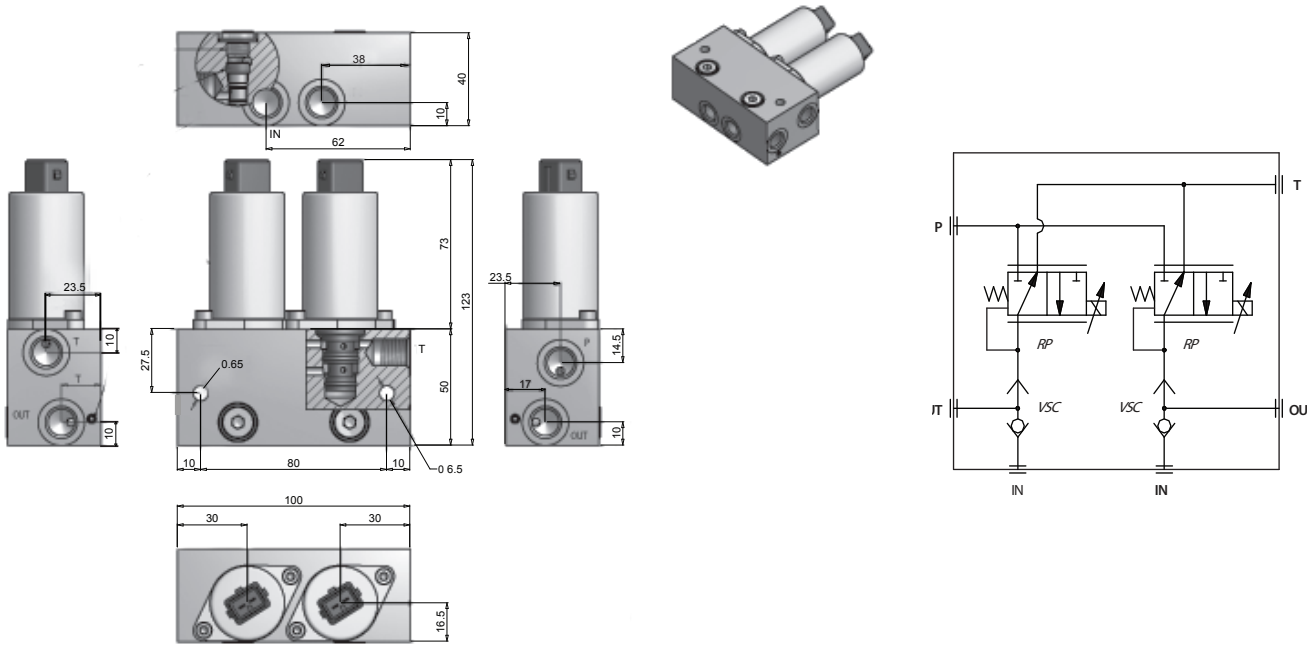
Pressure Reducing Pilot Manifold

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
150106008	12V DC Pilot	3 LPM	35 BAR	1/4" BSPP	Aluminium	$ 495.00
150106008A	24V DC Pilot	3 LPM	35 BAR	1/4" BSPP	Aluminium	$ 495.00



Pressure Reducing Pilot Manifold with Shuttle

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
150106031	12V DC Pilot	3 LPM	35 BAR	1/4" BSPP	Aluminium	$ 605.00
150106031A	24V DC Pilot	3 LPM	35 BAR	1/4" BSPP	Aluminium	$ 605.00



Notes

Section 1A

Load Sense, Proportional, Flow Sharing Valves

MAKE	MODEL	PAGE
Bucher	HDS 15 Load Sensing Valves	1A.68
Bucher	HDS 30 Load Sensing Valves	1A.69
Hydrocontrol	HC-D12LS Load Sensing Valves	1A.70
Hydrocontrol	HC-D20LS Load Sensing Valves	1A.71
LC	ED Proportional, Flow Sharing Valves	1A.72
NEM	NVD2 Proportional Valves	1A.73
NEM	NVD2 Load Sense Valves	1A.74
NEM	NVD2 Proportional Valves	1A.75
Made In Italy	VDP08 Proportional, Load Sense Valves	1A.76
Made In Italy	VDP08 Proportional, Load Sense Valves	1A.77
Hydrocontrol	HCMV99 Proportional Valves	1A.78
Hydrocontrol	HCMV99 Proportional Valves	1A.79
Hydrocontrol	EX38 Proportional, Flow Sharing Valves	1A.80
Hydrocontrol	EX38 Proportional, Flow Sharing Valves	1A.81
Hydrocontrol	EX38 Proportional, Flow Sharing Valves	1A.82
Hydrocontrol	EX38HF Proportional, Flow Sharing Valves	1A.83
Hydrocontrol	EX46 Proportional, Flow Sharing Valves	1A.84
Hydrocontrol	EX46 Proportional, Flow Sharing Valves	1A.85
Hydrocontrol	EX54 Proportional, Flow Sharing Valves	1A.86
Hydrocontrol	EX54 Proportional, Flow Sharing Valves	1A.87
Hydrocontrol	EX72 Proportional, Flow Sharing Valves	1A.88
Hydrocontrol	EX72 Proportional, Flow Sharing Valves	1A.89

MAKE	MODEL	PAGE

HDS 15 Load Sensing Valves

Sectional Directional Control Valve Manually Operated
Double Acting Load Sensing - Spring Centred Assemblies

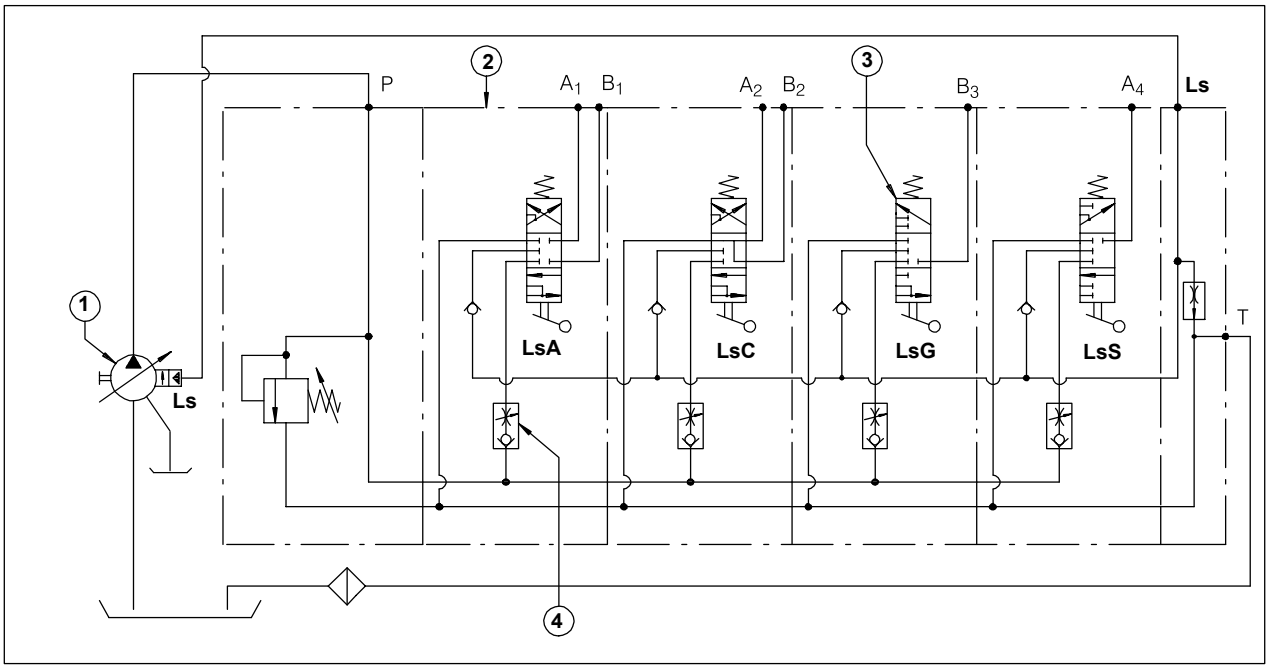
Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
011518002	HDS15/1K05-151LS	1	60 LPM	15 US GPM	320 BAR	4600 PSI	7/8" UNO	$ 901.00
011528002	HDS15/2K05-151LS	2						$ 1374.00
011538001	HDS15/3K05-151LS	3						$ 1846.00
011548002	HDS15/4K05-151LS	4						$ 2317.00
Add Per Spool		5 - 10						$ 473.00

Load sensing

Load-sensing control and working principle

Through the use of variable flow pumps provided with a pressure and flow compensator the pressure and flow parameters can be adapted according to the different and real working conditions.
These pumps require the use of special valves provided with Load Sensing control which "feels" the hydraulic components (cylinder and motor) requirements and through a special pilot line (L.S.) controls the pump compensator conforming capacity and pressure to such requirements which can be variable in time within the limits of the pump performance.
The Load Sensing brings following advantages:

a) Energy saving.
b) Smaller heat exchangers can be used due to a smaller heat energy dissipation.
c) Longer life of the pump and driving motor, due to reduced heavy working cycles.
d) Excellent control of the load by using 100% of the spool metering.

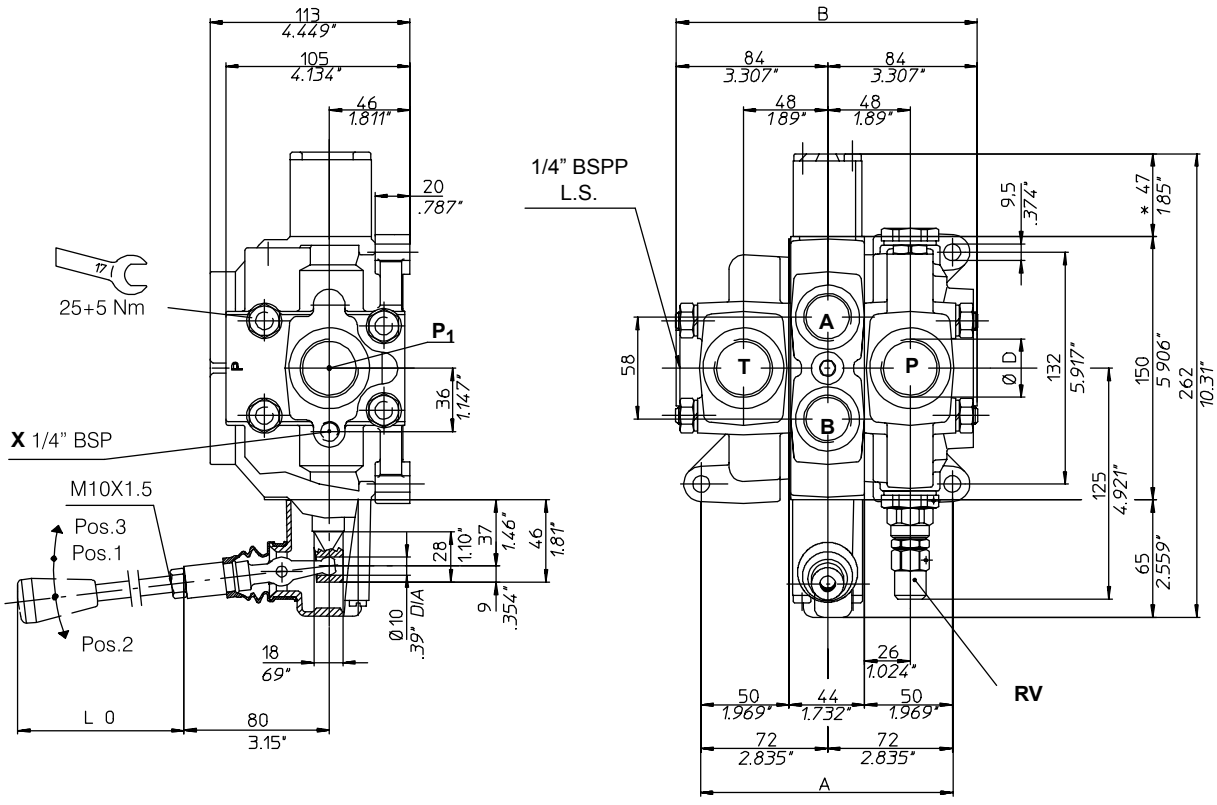


1) **Variable flow pump provided with pressure and flow compensator.**
2) **Load Sensing valve.**
3) **Special spools: LsA – LsC – LsG – LsS**
4) **Check valve provided with max flow control**

HDS 30 Load Sensing Valves

Sectional Directional Control Valve Manually Operated
Double Acting Load Sensing - Spring Centred Assemblies

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
033014001	HDS30/1K02151LS	1	120 LPM	31 US GPM	250 BAR	3600 PSI	P & T 1" BSPP	$ 1124.00
033014002	HDS30/2K02151LS	2						$ 1684.00
033034066	HDS30/3K02151LS	3						$ 2244.00
033044049	HDS30/4K02151LS	4					A & B 3/4" BSPP	$ 2804.00
Add Per Spool (741640104)		5 - 10						$ 560.00

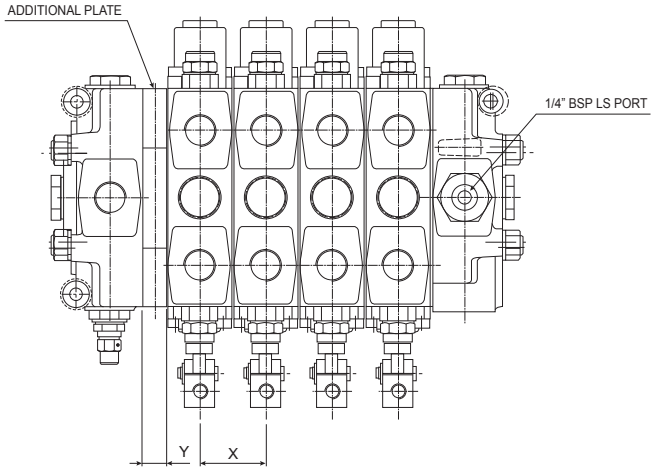


No. of Sections	1	2	3	4	5	6	7	8	9	10
Dim. A	144	188	232	276	320	364	408	452	496	540
Dim. B	168	212	256	300	344	388	432	476	520	564

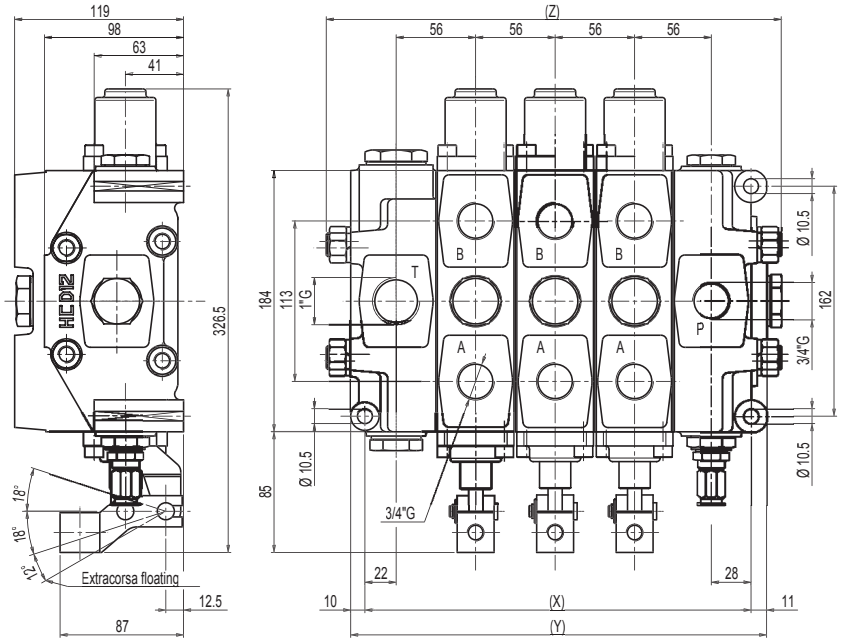
HC-D12LS Load Sensing Valves

Sectional Directional Control Valve Manually Operated
Double Acting Load Sensing - Spring Centred Assemblies

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
HCD12LS1	HCD12LS1	1	180 LPM	47 GPM	350 BAR	5000 PSI	P & T 3/4" & 1" BSPP A & B 3/4" BSPP	$ 2586.00
HCD12LS2	HCD12LS2	2						$ 3513.00
HCD12LS3	HCD12LS3	3						$ 4440.00
HCD12LS4	HCD12LS4	4						$ 5367.00
Add per spool	LSW001CH101	-						$ 927.00
Add per spool	LSW001CH0052	-						$ 927.00



Type	X (mm)	Y (mm)
HC-D4 LS	40	20
HC-D6 LS	46	20
HC-D12 LS	56	20
HC-D20 LS	64	20

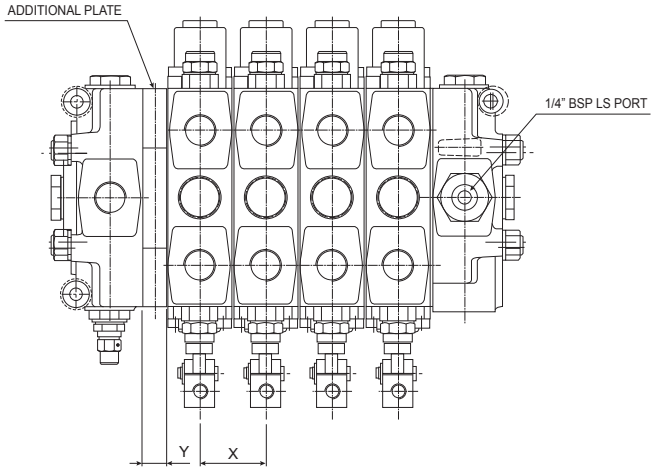


No. of Sections		1	2	3	4	5	6	7	8	9	10	11	12
Variable Dimensions (mm)	X	162	218	274	330	386	442	498	554	610	666	722	778
	Y	183	239	295	351	407	463	519	575	631	687	743	799
	Z	208	264	320	376	432	488	544	600	656	712	768	824
Weight (kg)		18.4	26	33.6	41.2	48.8	56.4	64	71.6	79.2	86.7	94.3	102
Tie-Rod Clamping Torque - 70 Nm													

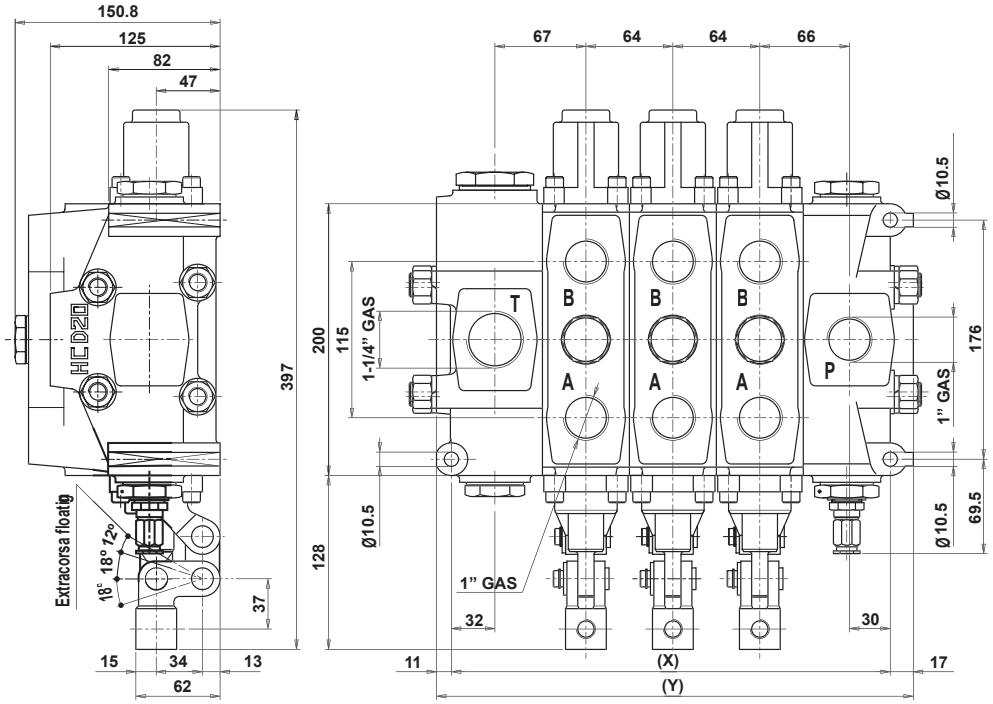
HC-D20LS Load Sensing Valves

Sectional Directional Control Valve Manually Operated
Double Acting Load Sensing - Spring Centred Assemblies

Stock No.	Model Code	No. of Spools	Recommended Maximum Flow		Recommended Max. Pressure		Port Size	List Price
HCD20LS1	HCD20LS1	1	250 LPM	66 GPM	350 BAR	5000 PSI	P & T 1" & 1-1/4" BSPP A & B 1" BSPP	$ 3642.00
HCD20LS2	HCD20LS2	2						$ 4884.00
HCD20LS3	HCD20LS3	3						$ 6126.00
HCD20LS4	HCD20LS4	4						$ 7404.00
Add per spool	LSW001CH101	-						$ 1242.00
Add per spool	LSW001CH0052	-						$ 1242.00



Type	X (mm)	Y (mm)
HC-D4 LS	40	20
HC-D6 LS	46	20
HC-D12 LS	56	20
HC-D20 LS	64	20



No. of Sections		1	2	3	4	5	6	7	8	9	10	11	12
Variable Dimensions (mm)	X	195	259	323	387	451	515	579	643	707	771	835	899
	Y	223	287	351	415	479	543	607	671	735	799	863	927
	Z	248	312	376	440	504	568	632	696	760	824	888	952
Weight (kg)		28.7	39.6	50.6	61.6	72.6	83.5	94.5	105.5	116.4	127.4	138.4	149.4

ED Proportional, Flow Sharing Valves

Sectional Directional Control Valve On/Off, Proportional, Flow Sharing

ED Inlet Sections

Stock No.	Model Code	Description	List Price
TE0103SBCI		Inlet with Relief	$ 160.00
TE030203AL	R933008548	Inlet with LS Connection	$ 170.00
TE0403SV00AL		Inlet with Relief and LS Connection	$ 240.00
TE0502SBCI		Inlet with Relief & Solenoid Unloading Cavity	$ 178.00
TE060300AL0I	R933007226	Inlet with Relief & LS Compensated Flow Control	$ 410.00
TE07010302K	R933003216	Inlet with LS Compensated Flow Control & Unloading	$ 635.00
TE130352BRCA0ICI	R930054439	Inlet with Bypass Compensated LS Relief unloading	$ 772.00

Directional Valve Elements

Stock No.	Model Code	Description	List Price
L8010*****	ED1-Z	Section 12/24 Volt On/Off 30 LPM	$ 225.00
L8011*****	ED2-Z	Section 12/24 Volt On/Off 50 LPM	$ 240.00
L8410*****	ED1-Z	Section 12/24 Volt On/Off LS 30 LPM	$ 280.00
L8411*****	ED2-Z	Section 12/24 Volt On/Off LS 50 LPM	$ 290.00
L8080*****	ED4-P	Section 12/24 Volt Proportional	$ 690.00
L8480*****	ED4-P	Section 12/24 Volt Proportional LS	$ 700.00
L8511*****	EDC-Z	Section 12/24 Volt On/Off Flow Sharing	$ 730.00
L8580*****	EDC-P	Section 12/24 Volt On/Off Proportional Flow Sharing	$ 750.00

Intermediate Elements

Stock No.	Model Code	Description	List Price
L88700	EPMDE18	Hand Pump	$ 421.00

Flangeable Elements

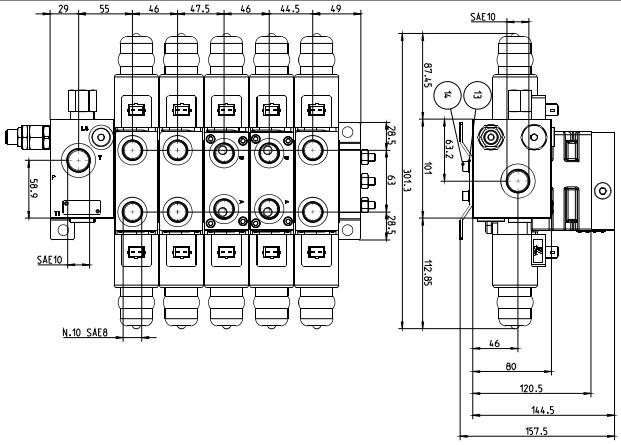
Stock No.	Model Code	Description	List Price
L884000AB0100	EDMVRAB	Pilot Operated Check A & B	$ 220.00
L883502AB350099	EDMVB	Overcentre Valve A & B	$ 386.00

ED Outlets

Stock No.	Model Code	Description	List Price
TC00	R933003326	Outlet	$ 46.00
TC03		Outlet with Extra P1	$ 60.00

Tie Rod Kits

Stock No.	Model Code	Description	List Price
K220*		Tie Rod Kit	$ 22.00



NVD2 Proportional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
40 LPM	10 US GPM	350 BAR	5000 PSI	1/2" BSPP	3/8" BSPP

NVD2 Inlet Sections

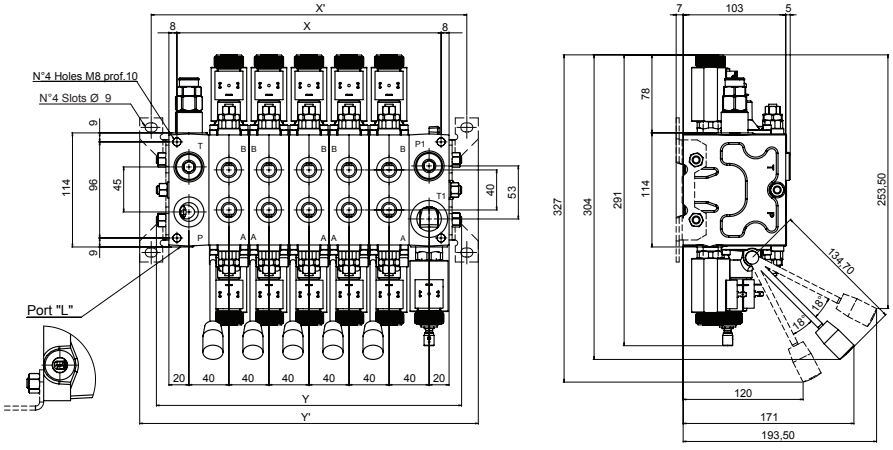
Stock No.	Model Code	Description	List Price
913NEM4001	IL/IR	Inlet c/w VM2, VP, VR Cartridge	$ 550.00
913NEM4010*	IL/IR*	Inlet c/w Cavities *	$ 376.00
0023310000	VM1	Relief Cartridge (40 - 140 Bar) *	$ 76.00
0023320000	VM2	Relief Cartridge (120 - 250 Bar) *	$ 76.00
0023330000	VM3	Relief Cartridge (220 - 410 Bar) *	$ 76.00
9273274600	SVM	Relief Valve Cavity Plug *	$ 40.00
N320271002	VP	Preloaded Check Valve *	$ 48.00
N320271003	SP	Cavity Plug VP *	$ 40.00
N320271001	VR	Pressure Reducing Valve 18 Bar *	$ 50.00
	* Note: Add relief cartridge, preloaded check valve, pressure reducing cartridge.		

NVD2 Body Sections

Stock No.	Model Code	Description	List Price
NVD2SEC00*	D1W001*A**B**XEM12DH05F01	Compensated Double Acting Proportional 12V DC	$ 786.00
NVD2SEC00*	D1W001*A**B**XEM24DH05F01	Compensated Double Acting Proportional 24V DC	$ 786.00
NVD2SEC00*	D2W001*A*BXEM12DH05F01TCATCB	Compensated Double Acting Proportional 12V DC c/w Cavities	$ 846.00
NVD2SEC00*	D2W001*A*BXEM24DH05F01TCATCB	Compensated Double Acting Proportional 24V DC c/w Cavities	$ 846.00
9231400504	F03	Spool Sensor	$ 310.00
9231400501	F02	Positioner with Thru Rod	$ 220.00
	*Denotes spool schemes & poppet flow rate.		

NVD2 Outlet Sections

Stock No.	Model Code	Description	List Price
913NEM6001	ZN	Outlet Section c/w Plug	$ 308.00
913NEM6010*	ZN*	Outlet Section c/w Cavity *	$ 278.00
0553010000	EV0	Dump Valve *	$ 150.00
0553010400	EV4	Dump Valve with Push Override *	$ 180.00
0553010500	EV5	Dump Valve with Push & Twist Override *	$ 200.00
9273274600	ET	Cavity Plug ET *	$ 40.00
098011191	C12D	Coil CT9800 12V DC din (suits Dump Valve) *	$ 54.00
098012191	C24D	Coil CT9800 24V DC din (suits Dump Valve) *	$ 54.00



NVD2 Load Sense Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
40 LPM	10 US GPM	350 BAR	5000 PSI	1/2" BSPP	3/8" BSPP

NVD2 Inlet Sections - Load Sense

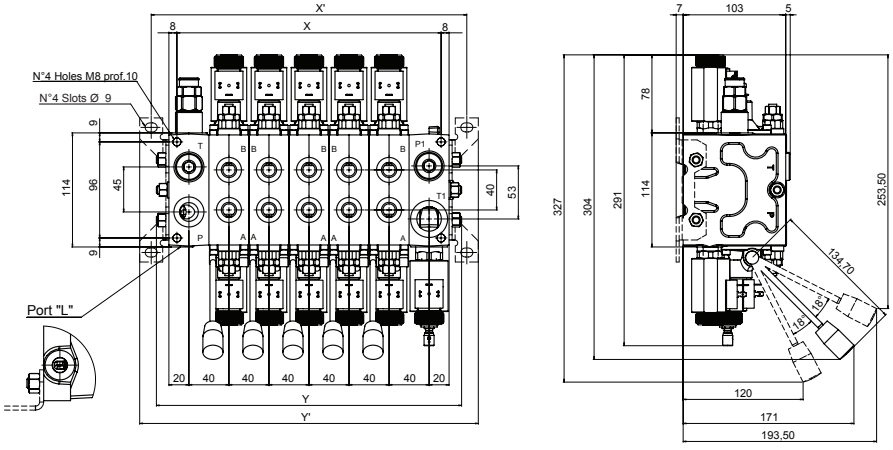
Stock No.	Model Code	Description	List Price
913NEM4001LS	IL/IR LS	Inlet c/w VM2, VR Cartridge	$ 600.00
913NEM4010LS	IL/IR* LS	Inlet c/w Cavities *	$ 434.00
0023310000	VM1	Relief Cartridge (40 - 140 Bar) *	$ 76.00
0023320000	VM2	Relief Cartridge (120 - 250 Bar) *	$ 76.00
0023330000	VM3	Relief Cartridge (220 - 410 Bar) *	$ 76.00
9273274600	SVM	Relief Valve Cavity Plug *	$ 40.00
N320271003	SP	Cavity Plug VP *	$ 40.00
N320271001	VR	Pressure Reducing Valve 18 Bar *	$ 50.00
	* Note: Add relief cartridge, pressure reducing cartridge.		

NVD2 Body Sections - Load Sense

Stock No.	Model Code	Description	List Price
NVD2SEC00*	D1W001*A**B**XEM12DH05F01	Compensated Double Acting Proportional 12V DC	$ 846.00
NVD2SEC00*	D1W001*A**B**XEM24DH05F01	Compensated Double Acting Proportional 24V DC	$ 846.00
NVD2SEC00*	D2W001*A*BXEM12DH05F01TCATCB	Compensated Double Acting Proportional 12V DC c/w Cavities	$ 908.00
NVD2SEC00*	D2W001*A*BXEM24DH05F01TCATCB	Compensated Double Acting Proportional 24V DC c/w Cavities	$ 908.00
9231400504	F03	Spool Sensor	$ 310.00
9231400501	F02	Positioner with Thru Rod	$ 220.00
	*Denotes spool schemes & poppet flow rate.		

NVD2 Outlet Sections - Load Sense

Stock No.	Model Code	Description	List Price
913NEM6001LS	ZN	Outlet Section c/w Plug	$ 314.00
913NEM6010LS	ZN*	Outlet Section c/w Cavity *	$ 278.00
0553010000	EV0	Dump Valve *	$ 150.00
0553010400	EV4	Dump Valve with Push Override *	$ 180.00
0553010500	EV5	Dump Valve with Push & Twist Override *	$ 200.00
9273274600	ET	Cavity Plug ET *	$ 40.00
098011191	C12D	Coil CT9800 12V DC din (suits Dump Valve) *	$ 54.00
098012191	C24D	Coil CT9800 24V DC din (suits Dump Valve) *	$ 54.00

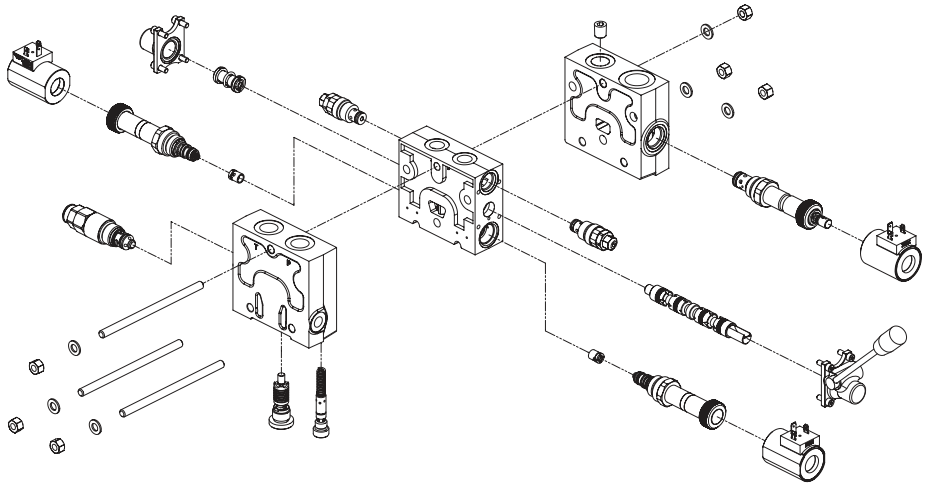


NVD2 Proportional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

NVD2 Options and Accessories

Stock No.	Model Code	Description	List Price
3207111307	03	Poppet 2 lpm	$ 52.00
3207111306	06	Poppet 6 lpm	$ 52.00
3207111309	09	Poppet 9 lpm	$ 52.00
3207111300	12	Poppet 12 lpm	$ 52.00
3207111308	18	Poppet 18 lpm	$ 52.00
3207111301	24	Poppet 24 lpm	$ 52.00
3207111302	36	Poppet 36 lpm	$ 52.00
3207111304	40	Poppet 40 lpm	$ 52.00
3207111305	50	Poppet 50 lpm	$ 52.00
0PNV200004	XE	Electro Hydraulic Valve	$ 121.00
9275225000	XT	Cavity Plug	$ 60.00
095001191	M12D	Proportional Coil 12V DC	$ 72.00
095002191	M24D	Proportional Coil 24V DC	$ 72.00
9231400340	H00	No Lever Kit	$ 50.00
9228130357	H05	Lever Kit	$ 200.00
0022010000	C1	Service Port Relief Cartridge 20-100 Bar	$ 44.00
0022020000	C2	Service Port Relief Cartridge 40-220 Bar	$ 44.00
0022030000	C3	Service Port Relief Cartridge 50-350 Bar	$ 44.00
9273193600	TC	Cavity Plug	$ 28.00
9296081401		Tierod Kit NVD2/1	$ 64.00
9296081801		Tierod Kit NVD2/2	$ 64.00
9296082201		Tierod Kit NVD2/3	$ 64.00
9296082601		Tierod Kit NVD2/4	$ 64.00
9296083001		Tierod Kit NVD2/5	$ 64.00
9296083401		Tierod Kit NVD2/6	$ 64.00
9296083801		Tierod Kit NVD2/7	$ 64.00
9296084201		Tierod Kit NVD2/8	$ 64.00



CROSS

VDP08 Proportional, Load Sense Valves

Pre Compensated Load Sense Sectional Directional Control Valve, Proportional Operation, Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet Port	Outlet Port	Work Port
130 LPM	34 US GPM	350 BAR	5000 PSI	3/4" BSPP	1" BSPP	1/2" BSPP

VDP08 Inlet Sections

Stock No.	Model Code	Description	List Price
R24178121	VDP08F250GPREV	Left Hand Inlet Fixed Pump with Main Relief ^^	$ 750.00
R24178131	VDP08V250GPREV	Left Hand Inlet Variable Pump with Main Relief ^^	$ 750.00
R24170061	VDP08 KIT VSLS30110	Port LS Relief & Main Relief Cartridge (30-110 bar)	$ 93.00
R24170060	VDP08 KIT VSLS110380	Port LS Relief & Main Relief Cartridge (110-180 bar)	$ 93.00
R24170062	VDP08 KIT PRVSLS	Port LS Relief & Main Relief Cavity Plug	$ 30.00
796332680	VPD08EV1NO12V	Unloading Valve Normally Open 12V DC	$ 131.00
796332681	VPD08EV2NO24V	Unloading Valve Normallly Open 24V DC	$ 131.00
R24178107	VDP08INPARCON	Left Hand Inlet for Parallel Connection Downstream Valve	$ 450.00
^^ And Provision for Unloading Valve			

VDP08 Body Sections

Stock No.	Model Code	Description	List Price
S2411800**	VDP08101#PRAPRBNLAC0	Compensated Double Acting c/w Cavities Manual	$ 830.00
S241807**	VDP08101#PRLSAPRLSBNLAC0	Compensated Double Acting c/w Cavities Manual c/w LSA & B Cavities	$ 880.00
S24180***	VDP08101#PRAPRBNLAIP	Compensated Double Acting c/w Cavities Hydraulic Pilot	$ 1010.00
S241808**	VDP08101#PRLSAPRLSBNLAIP	Compensated Double Acting c/w Cavities Hydraulic Pilot c/w LSA & B Cavities	$ 1060.00
S2418065*	VDP08101#PRAPRBNLAKE1	Compensated Double Acting c/w Cavities Proportional 12V DC	$ 1355.00
S241809**	VDP08101#PRLSAPRLSBNLAKE1	Compensated Double Acting c/w Cavities Proportional 12V DC c/w LSA & B Cavities	$ 1405.00
S241806**	VDP08101#PRAPRBNLAKE2	Compensated Double Acting c/w Cavities Proportional 24V DC	$ 1355.00
S24181***	VDP08101#PRLSAPRLSBNLAKE2	Compensated Double Acting c/w Cavities Proportional 24V DC c/w LSA & B Cavities	$ 1405.00
S24181***	VDP08101#PRLSAPRLSBNLAKM	Compensated Double Acting c/w Cavities Proportional Closed Loop c/w LSA & B Cavities	$ 1936.00
S241806**	VDP08101#PRAPRBNLAPP	Compensated Double Acting c/w Cavities Pneumatic	$ 1070.00

VDP08 Outlet Sections

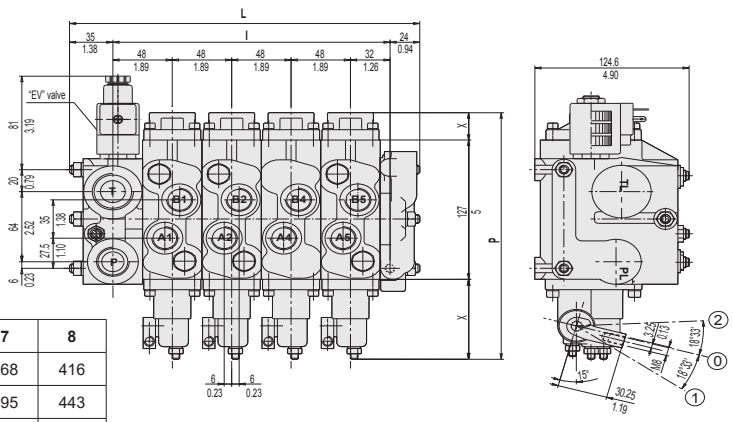
Stock No.	Model Code	Description	List Price
R24190010	VDP08 End Plate U0	End Plate suit NL, FL, PP, IP	$ 210.00
R24190020	VDP08 End Plate U1	End Plate suit IP, KE1, KE2, KM	$ 320.00
R24190060	VDP08 End Plate U2	End Plate for External Piloting Signal	$ 320.00
R24190040	VDP08 End Plate U3	End Plate suit IP, KE1, KE2, KM c/w Unloading Valve 12V DC	$ 408.00
R24190050	VDP08 End Plate U4	End Plate suit IP, KE1, KE2, KM c/w Unloading Valve 24V DC	$ 408.00
R24190030	VDP08 End Plate U5	End Plate for Parallel Connection Unpstream Valve	$ 450.00
R24190090	VDP08 End Plate U8	End Plate for External Piloting Signal c/w Unloading Valve 12V DC	$ 408.00
R24190100	VDP08 End Plate U9	End Plate for External Piloting Signal c/w Unloading Valve 24V DC	$ 408.00
R24190130	VDP08 End Plate U12	End Plate suit IP, KE1, KE2, KM c/w Manual By-Pass Valve	$ 320.00

VDP08 Proportional, Load Sense Valves

Pre Compensated Load Sense Sectional Directional Control Valve, Proportional Operation, Individual Inlets, Outlets and Sections

VDP08 Options and Accessories

Stock No.	Model Code	Description	List Price
R24170130	VDP08 CONVERSION KIT TO F	Conversion Kit for Inlet Section (Variable to Fixed)	$ 18.00
R24170120	VDP08 CONVERSION KIT TO V	Conversion Kit for Inlet Section (Fixed to Variable)	$ 18.00
R24187652	VDP08 KIT SPS	Lever Box w/o Manual Mechanism	$ 131.00
R24175650	VDP08 KIT IP	Hydraulic Pilot Kit	$ 153.00
R24174675	VDP08 KIT PP	Pneumatic Kit	$ 200.00
R24177541	VDP08 KIT VR	Anti Cavitation Cartridge	$ 28.00
R24170061	VDP08 KIT VSLS30110	Port LS Relief & Main Relief Cartridge (30-110 Bar)	$ 93.00
R24170060	VDP08 KIT VSLS110380	Port LS Relief & Main Relief Cartridge (110-380 Bar)	$ 93.00
R23277560	VDP08 KIT AR100	Combination Valve (100 Bar)	$ 83.00
R23277580	VDP08 KIT AR140	Combination Valve (140 Bar)	$ 83.00
R23277600	VDP08 KIT AR175	Combination Valve (175 Bar)	$ 83.00
R23277620	VDP08 KIT AR210	Combination Valve (210 Bar)	$ 83.00
R23277640	VDP08 KIT AR250	Combination Valve (250 Bar)	$ 83.00
R23277650	VDP08 KIT AR280	Combination Valve (280 Bar)	$ 83.00
R23277660	VDP08 KIT AR315	Combination Valve (315 Bar)	$ 83.00
R23277670	VDP08 KIT AR350	Combination Valve (350 Bar)	$ 83.00
R24172780	VDP08 KIT SINGLE ACTING PORT A	Single Action Port A Kit	$ 35.00
R24172770	VDP08 KIT SINGLE ACTING PORT B	Single Action Port B Kit	$ 35.00
R24172760	VDP08 KIT LSA LSB	LSA & LSB Kit	$ 44.00
R24185010	VDP08 ASSKIT 1 SPOOL	Tierod VDP08/1	$ 63.00
R24185020	VDP08 ASSKIT 2 SPOOLS	Tierod VDP08/2	$ 73.00
R24185030	VDP08 ASSKIT 3 SPOOLS	Tierod VDP08/3	$ 73.00
R24185040	VDP08 ASSKIT 4 SPOOLS	Tierod VDP08/4	$ 73.00
R24185050	VDP08 ASSKIT 5 SPOOLS	Tierod VDP08/5	$ 73.00
R24185060	VDP08 ASSKIT 6 SPOOLS	Tierod VDP08/6	$ 80.00
R24185070	VDP08 ASSKIT 7 SPOOLS	Tierod VDP08/7	$ 90.00
R24185080	VDP08 ASSKIT 8 SPOOLS	Tierod VDP08/8	$ 96.00
420192000	VDP08 KIT HAND LEVER	Hand Lever Assembly	$ 12.00
R24175700	VDP08CBLCTR	Cable Control Kit	$ 200.00
R24175060	VDP08FL Spring Kit	Friction Detent Kit	$ 130.00



No. of Sections	1	2	3	4	5	6	7	8
l mm	80	128	176	224	272	320	368	416
L mm	107	155	203	251	299	347	395	443
Mass kg	8.80	12.8	16.80	20.80	24.80	28.80	32.80	36.80

HCMV99 Proportional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
130 LPM	34 US GPM	420 BAR	6090 PSI	3/4" BSPP	1/2" BSPP

HCMV99 Inlet Sections

Stock No.	Model Code	Description	List Price
29224	MR019KVG05	Right Hand Inlet (Fixed Pump) c/w Cavities Plugged*	$ 584.00
20747	MR019JVG05	Right Hand Inlet (LS Variable Pump) c/w Cavities Plugged*	$ 533.00
HCMVIF03	ML019KVG05	Left Hand Inlet (Fixed Pump) c/w Cavities Plugged*	$ 584.00
HCMVIF04	ML019JVG05	Left Hand Inlet (LS Variable Pump) c/w Cavities Plugged*	$ 533.00
36195	ML001HVG05	Left Hand Inlet (Fixed Pump) c/w HPC	$ 920.00
61071	MIDINJVG05	Mid Inlet (LS Variable Pump) 200 LPM	$ 1200.00
64899	1A	Direct Acting Relief Cartridge (50-200 Bar)	$ 138.00
64900	1A	Direct Acting Relief Cartridge (201-420 Bar)	$ 138.00
64901	3B	Pilot Operated Relief Cartridge (50-420 Bar)	$ 144.00
915045501	7B - 8B	Unloading Valve 12V DC	$ 343.00
915045502	7B - 8B	Unloading Valve 24V DC	$ 343.00
	*Note: Add Relief or Unloading Cartridges		

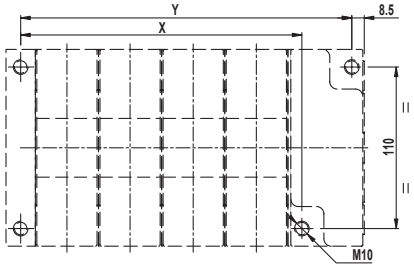
HCMV99 Body Sections

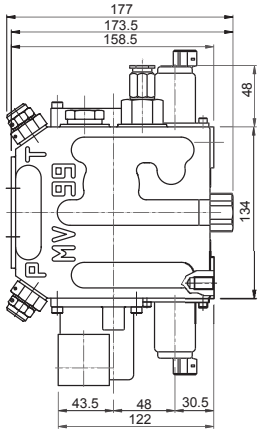
Stock No.	Model Code	Description	List Price
64685	W001CFFFFH402F001RC1G0405PA05PB	Compensated Double Acting c/w Cavities Manual	$ 813.00
9900*	W001C****H403F001RC1G0405PA05PB	Compensated Double Acting c/w Cavities Hydraulic Pilot	$ 989.00
9900*	W001C****H404F001RC1G0405PA05PB	Compensated Double Acting c/w Cavities Proportional 12V DC	$ 1238.00
9900*	W001C****H405F001RC1G0405PA05PB	Compensated Double Acting c/w Cavities Proportional 24V DC	$ 1238.00
64686	W001CFFFFH402F001RD1G0405PA05PB	Non Compensated Double Acting c/w Cavities Manual	$ 667.00

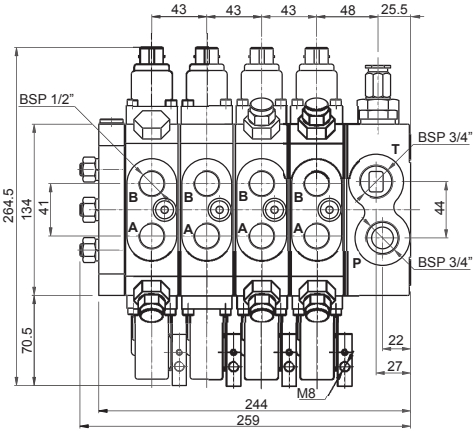
HCMV99 Outlet Sections

Stock No.	Model Code	Description	List Price
20615	KZ3	End Plate suit H402, H403	$ 205.00
20565	KZ4	End Plate suit H404, H405	$ 205.00
20955	KZ5	End Plate suit H402, H403	$ 297.00
20669	KZ6	End Plate suit H404, H405	$ 297.00

Fixing Specifications







Variable Dimensions

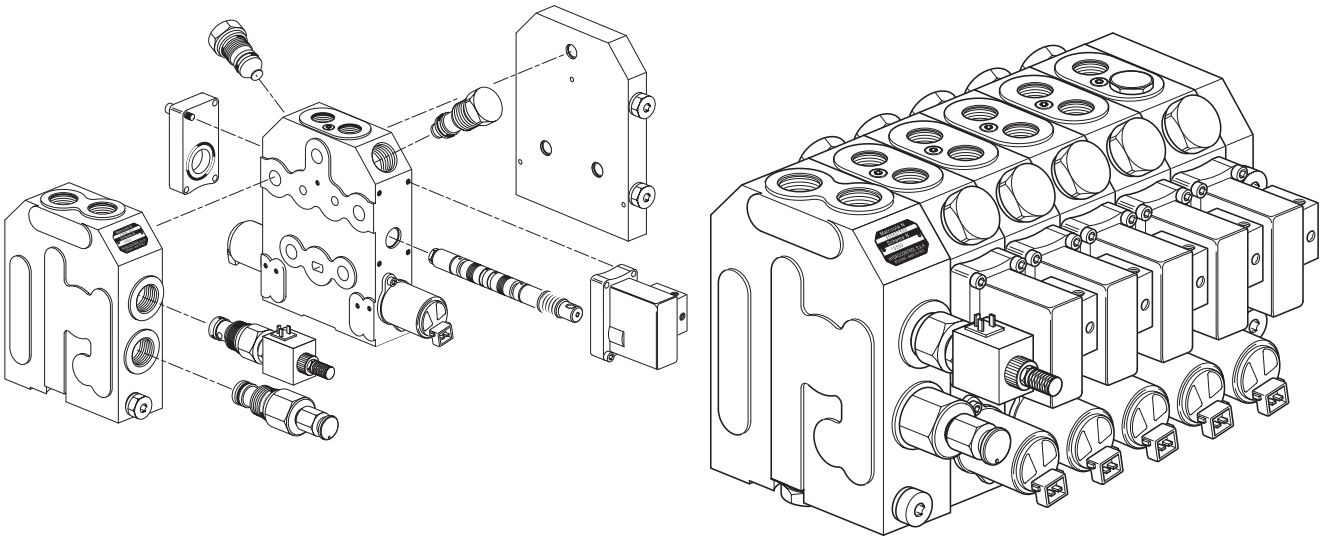
Type	MV99/1	MV99/2	MV99/3	MV99/4	MV99/5	MV99/6	MV99/7	MV99/8	MV99/9	MV99/10
X (mm)	62.5	105.5	148.5	191.5	234.5	277.5	320.5	363.5	406.5	449.5
Y (mm)	96.5	139.5	182.5	225.5	268.5	311.5	354.5	397.5	440.5	483.5

HCMV99 Proportional Valves

Sectional Directional Control Valve Manually Operated
Individual Inlets, Outlets and Sections

HCMV99 Options and Accessories

Stock No.	Model Code	Description	List Price
320055005	KV to JV	Conversion Kit for Inlet Section (Fixed to Variable)	$ 111.00
320055021	JV to KV	Conversion Kit for Inlet Section (Variable to Fixed)	$ 255.00
430855001	H403	Hydraulic Pilot Kit (One end only) Use A01	$ 88.00
320355001	H402	Manual Handle Assembly	$ 200.00
430055004	H404	Proportional Electro Hydraulic 12V DC (One end only)	$ 213.00
430055003	H405	Proportional Electro Hydraulic 24V DC (One end only)	$ 213.00
64902	01PA	Service Port Relief Valve Cartridge (40-200 Bar)	$ 65.00
64903	01PA	Service Port Relief Valve Cartridge (201-420 Bar)	$ 65.00
64901	04PA	Service Port Relief/Anti Cavitation Cartridge (50-420 Bar)	$ 144.00
915085501	02PA	Anti Cavitation Cartridge	$ 52.00
421801128	H402 Spring	Spring to suit H402	$ 17.00
421801127	H403/4/5 Spring	Spring to suit H403, H404, H405	$ 17.00
430455001	05PA	Cavity Plugs	$ 32.00
430055001	H403/4/5	Blanking Plug	$ 20.00
320055009	F026	Load Limit on A	$ 200.00
430055038	F145	Friction Detent	$ 110.00
14299	Jet Conn	Connector - Junior Timer	$ 40.00
413000223	-	Connector & 2m Cable	$ 73.00
300155001	Single Tie Rod	Tie Rod MV99/1 (3 Required)	$ 20.00
300155002	Single Tie Rod	Tie Rod MV99/2 (3 Required)	$ 22.00
300155003	Single Tie Rod	Tie Rod MV99/3 (3 Required)	$ 23.00
300155004	Single Tie Rod	Tie Rod MV99/4 (3 Required)	$ 25.00
300155005	Single Tie Rod	Tie Rod MV99/5 (3 Required)	$ 25.00
300155006	Single Tie Rod	Tie Rod MV99/6 (3 Required)	$ 30.00



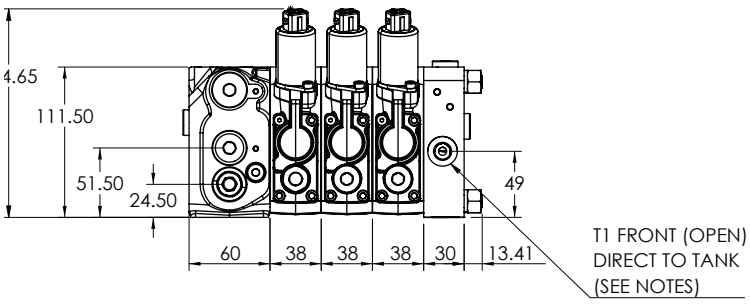
EX38 Proportional, Flow Sharing Valves

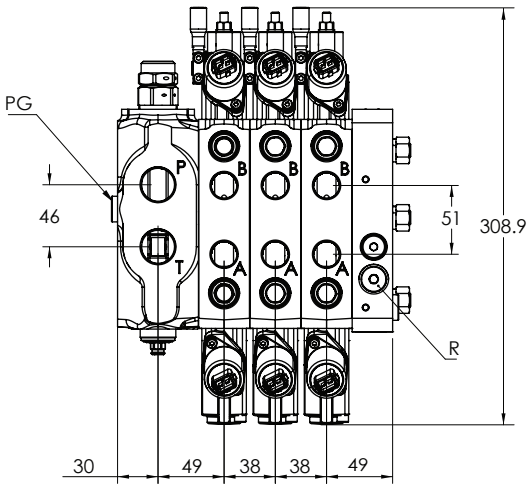
Pre & Post Compensated Load Sense
Sectional Directional Control Valve. Proportional Operation,
Individual Inlets, Outlets and Sections

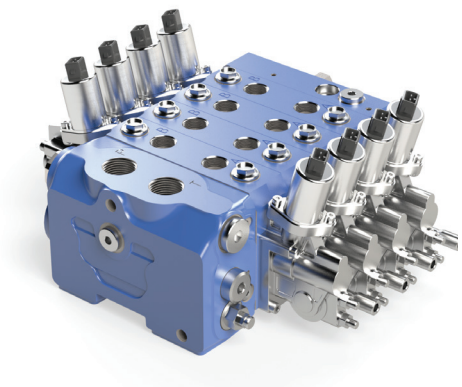
Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
150 LPM	40 US GPM	350 BAR	5000 PSI	3/4" BSPP	1/2" BSPP

EX38 Inlet/Outlet Sections

Stock No.	Model Code	Description	List Price
38001	MR/MLV1A250JVG05	RH Inlet (Variable) with 1A Relief	$ 770.00
38002	MR/MLV1A250V3B200KVG05	RH Inlet (Fixed) with 1A & 3B Relief	$ 891.00
38037	MLV1A250KVG05HPCO	ML Inlet (Fixed) with V1A Relief & HPCO	$ 940.00
915028503	V1A	LS Pressure Relief Cartridge 50-250 Bar	$ 120.00
915028504	V1A	LS Pressure Relief Cartridge 251-420 Bar	$ 120.00
430085034	V2A	"A" Cavity Plug	$ 90.00
915065501	V3B	Full Flow Pressure Relief Cartridge 40-200 Bar	$ 260.00
915065502	V3B	Full Flow Pressure Relief Cartridge 201-420 Bar	$ 260.00
430195001	V4B	"B" Cavity Plug	$ 90.00
413150077	V11C	LS Unloading Valve Cartridge Only	$ 130.00
413171237	C12AJ	12V Coil LS & Full Flow Unloading Valve	$ 110.00
413172433	C24AJ	24V Coil LS & Full Flow Unloading Valve	$ 110.00
430085051	V12C	Fixed Orifice LS Bleed-Off Cartrdige	$ 64.00
430085070	V13C	Pressure Compensated LS Bleed-Off Cartrdige	$ 148.00
915049301	V7BC	Full Flow Unloading Valve Cartridge Only	$ 340.00
320093007	KV to JV	Transformation Kit KV to JV	$ 162.00
320093008	JV to KV	Transformation Kit JV to KV	$ 162.00







EX38 Proportional, Flow Sharing Valves

Pre & Post Compensated Load Sense
Sectional Directional Control Valve. Proportional Operation, Individual Inlets, Outlets and Sections

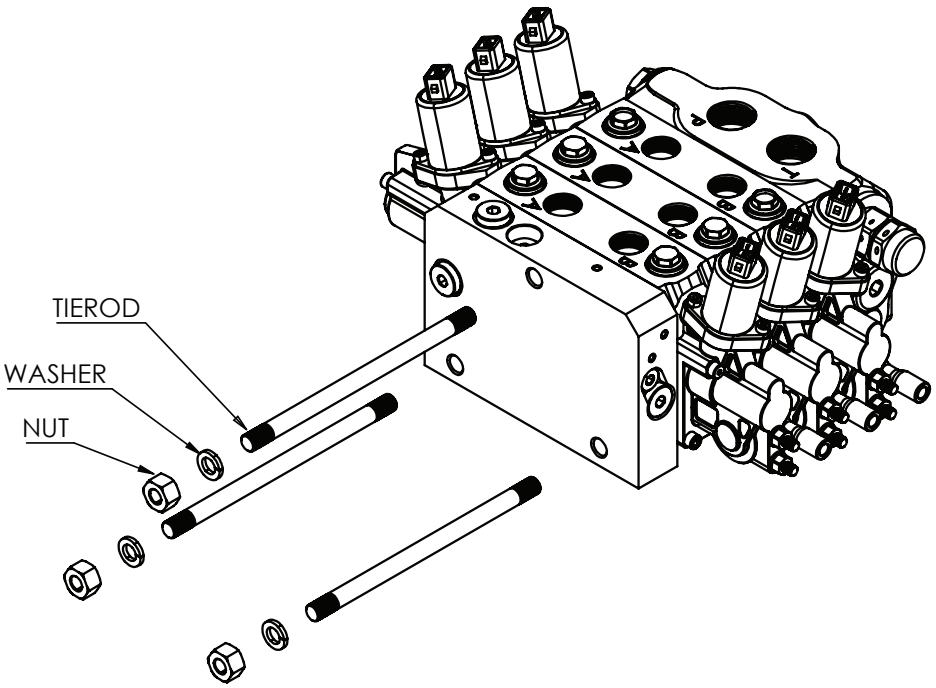
EX38 Body Sections - (RC) Post Compensated & (RL) Pre Compensated

Stock No.	Model Code	Description	List Price
38055	W001C50H001F001ARC1G0405TFPAB	Lever Actuation without Stroke Limiter	$ 750.00
38058	W001C50HP05LRC1G0405TFPAB	Hydraulic Pilot Actuation with Stroke Limiter	$ 930.00
38019	W001C50HP04LFP04B12AJRC1G0405TFPAB	Electrohydraulic Actuation with Lever & Stroke Limiter 12V DC	$ 1180.00
38018	W001C50HP04LFP04B24AJRC1G0405TFPAB	Electrohydraulic Actuation with Lever & Stroke Limiter 24V DC	$ 1180.00
38024M	W001C65HP05LRL1G0405TFPAB	Hydraulic Pilot Actuation with Stroke Limiter Pre-Compensated	$ 986.00
38024A	W001C65HP04LFP04B24AJRL1G0405TFPAB	Electrohydraulic Actuation with Lever & Stroke Limiter 12V DC Pre-Compensated	$ 1236.00
38024	W001C65HP04LFP04B24AJRL1G0405TFPAB	Electrohydraulic Actuation with Lever & Stroke Limiter 24V DC Pre-Compensated	$ 1236.00

EX38 End Plate

Stock No.	Model Code	Description	List Price
320093123	KZ20EC	End Plate suit H001,HP05L,HP04L	$ 440.00
38038	KZ20ECHPCO	End Plate (HPCO) with Tank Port suit H001, HP05L, HP04L	$ 500.00

EX38



EX38 Proportional, Flow Sharing Valves

Pre & Post Compensated Load Sense
Sectional Directional Control Valve. Proportional Operation, Individual Inlets, Outlets and Sections

EX38 Options and Accessories

Stock No.	Model Code	Description	List Price
915089001	02TFP	Anti Cavitation Valve	$ 100.00
915870100	03TFP (100)	Combination Valve 100 Bar not Adjustable	$ 84.00
915870150	03TFP (150)	Combination Valve 150 Bar not Adjustable	$ 84.00
915870200	03TFP (200)	Combination Valve 200 Bar not Adjustable	$ 84.00
915870250	03TFP (250)	Combination Valve 250 Bar not Adjustable	$ 84.00
915870300	03TFP (300)	Combination Valve 300 Bar not Adjustable	$ 84.00
915870350	03TFP (350)	Combination Valve 350 Bar not Adjustable	$ 84.00
915078702	03ADJP	Combination Valve 71-130 Bar Adjustable	$ 180.00
915078703	03ADJP	Combination Valve 131-210 Bar Adjustable	$ 180.00
915078702	05TFP	Service Port Relief Cavity Plug	$ 40.00
915008501	RCD1 30-80 Bar	LS Relief suit Post Compensated Section	$ 160.00
915008502	RCD1 81-200 Bar	LS Relief suit Post Compensated Section	$ 160.00
915008503	RCD1 201-350 Bar	LS Relief suit Post Compensated Section	$ 160.00
915008504	RLD1 50-170 Bar	LS Relief suit Pre Compensated Section	$ 160.00
915008505	RLD1 201-350 Bar	LS Relief suit Pre Compensated Section	$ 160.00
430085041	RCS1	External Pilot LS Relief Valve suit Post Compensated Section	$ 160.00
430085042	RLS1	External Pilot LS Relief Valve suit Pre Compensated Section	$ 160.00
430093100	B12AJ	Proportional Pressure Reducing Cartridge 12V DC	$ 213.00
430093101	B24AJ	Proportional Pressure Reducing Cartridge 24V DC	$ 213.00
430093038	B00AJ	Proportional Pressure Reducing Cavity Plug	$ 213.00
14299		Amp Junior Timer Mate Connector	$ 40.00
322593106	FP04S	Spool Position Sensor Kit	$ 600.00
320085011	F145	Friction Detent suit H001 Manual Actuation without Stroke Adjusters	$ 200.00
321293002	F022A	Pneumatic Pilot	$ 350.00
320593113	HP05L	Hydraulic Pilot Front Port A Side with stroke adjuster	$ 180.00
320593114	HP05L	Hydraulic Pilot Front Port B Side with stroke adjuster	$ 180.00
350993001	Seal Kit	Section Face Seal Kit	$ 68.00
300193022	Single Tierod	Tierod EX38/1 (3 required)	$ 50.00
300193015	Single Tierod	Tierod EX38/2 (3 required)	$ 50.00
300193016	Single Tierod	Tierod EX38/3 (3 required)	$ 50.00
300193017	Single Tierod	Tierod EX38/4 (3 required)	$ 60.00
300193010	Single Tierod	Tierod EX38/5 (3 required)	$ 60.00
300193011	Single Tierod	Tierod EX38/6 (3 required)	$ 60.00
300193012	Single Tierod	Tierod EX38/7 (3 required)	$ 70.00
300193013	Single Tierod	Tierod EX38/8 (3 required)	$ 70.00

EX38HF Proportional, Flow Sharing Valves

Post Compensated Load Sense
Sectional Directional Control Valve. Proportional Operation, Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet Port Size	Outlet Port Size	Work Port Size
200 LPM	53 US GPM	350 BAR	5000 PSI	3/4” BSPP	1” BSPP	3/4” BSPP

EX38HF Inlet & Outlet Sections

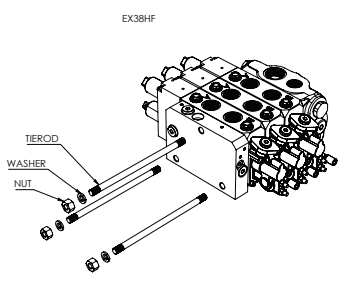
Stock No.	Model Code	Description	List Price
38001HF	MR/MLV1A250JVG05G06	RH Inlet (Variable) with 1A Relief	$ 1080.00
38002HF	MR/MLV1A250V3B200KVG05G06	RH Inlet (Fixed) with 1A & 3B Relief	$ 1276.00
915028503	V1A	LS Pressure Relief Cartridge 50-250 Bar	$ 120.00
915028504	V1A	LS Pressure Relief Cartridge 251-420 Bar	$ 120.00
430085034	V2A	"A" Cavity Plug	$ 90.00
915065501	V3B	Full Flow Pressure Relief Cartridge 40-200 Bar	$ 260.00
915065502	V3B	Full Flow Pressure Relief Cartridge 201-420 Bar	$ 260.00
430195001	V4B	"B" Cavity Plug	$ 90.00
413150077	V11C	LS Unloading Valve Cartridge Only	$ 130.00
413171237	C12AJ	12V Coil LS & Full Flow Unloading Valve	$ 110.00
413172433	C24AJ	24V Coil LS & Full Flow Unloading Valve	$ 110.00
430085051	V12C	Fixed Orifice LS Bleed-Off Cartrdige	$ 64.00
430085070	V13C	Pressure Compensated LS Bleed-Off Cartrdige	$ 148.00
320093007	KV to JV	Transformation Kit KV to JV	$ 162.00
320093008	JV to KV	Transformation Kit JV to KV	$ 162.00

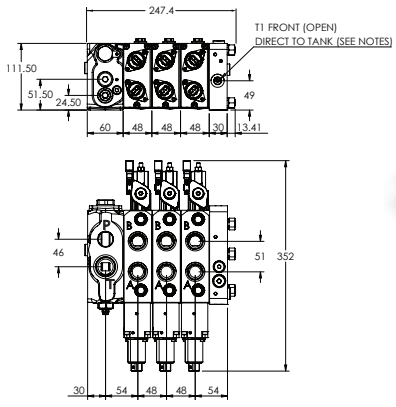
EX38HF Body Sections - (RCU) Post Compensated

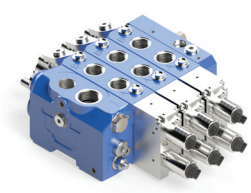
Stock No.	Model Code	Description	List Price
38064	W001C140HP06LB12AJRCU1G0505TFPAB	Electrohydraulic Actuation with Lever & Stroke Limiter 12V DC	$ 1570.00
38064A	W001C140HP06LB24AJRCU1G0505TFPAB	Electrohydraulic Actuation with Lever & Stroke Limiter 24V DC	$ 1570.00

EX38HF End Plate

Stock No.	Model Code	Description	List Price
320093123	KZ20EC	End Plate suit H001, HP05L, HP04L	$ 440.00
300193042	Single Tierod	Tierod EX38HF/1 (3 required)	$ 56.00
300193039	Single Tierod	Tierod EX38HF/2 (3 required)	$ 56.00
300193040	Single Tierod	Tierod EX38HF/3 (3 required)	$ 56.00
300193043	Single Tierod	Tierod EX38HF/4 (3 required)	$ 66.00







EX46 Proportional, Flow Sharing Valves

Post Compensated Load Sense
Sectional Directional Control Valve. Proportional Operation, Individual Inlets, Outlets and Sections

Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
220 LPM	58 US GPM	350 BAR	5000 PSI	1" BSPP	3/4" BSPP

EX46 Inlet Sections

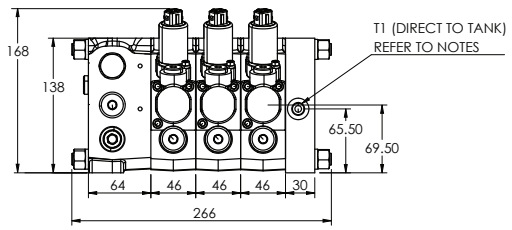
Stock No.	Model Code	Description	List Price
46011	MR/MLV1A250JVG06	RH Inlet (Variable) with 1A Relief	$ 1036.00
46012	MR/MLV1A200V3B250KVG06	RH Inlet (Fixed) with 1A & 3B Relief	$ 1310.00
915028503	V1A	LS Pressure Relief Cartridge 50-250 Bar	$ 90.00
915028504	V1A	LS Pressure Relief Cartridge 251-420 Bar	$ 90.00
430085034	V2A	"A" Cavity Plug	$ 40.00
915078801	V3B	Full Flow Pressure Relief Cartridge 50-350 Bar	$ 443.00
430488001	V4B	"B" Cavity Plug	$ 50.00
3200A1013	KV to JV	Transformation Kit KV to JV	$ 200.00
3200A1014	JV to KV	Transformation Kit JV to KV	$ 200.00

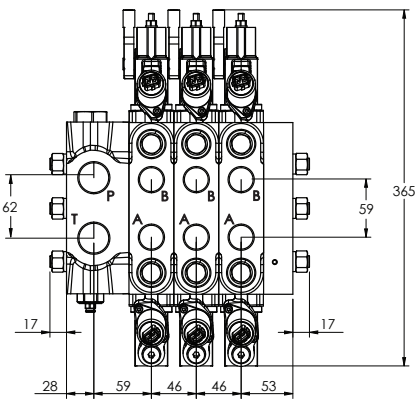
EX46 Body Sections - (RC) Post Compensated

Stock No.	Model Code	Description	List Price
461005	W001C180H001F001ARC1G0505TFPAB	Lever Actuation without Stroke Limiter	$ 965.00
461010	W001C180HP05LRC1G0505TFPAB	Hydraulic Pilot Actuation with Stroke Limiter	$ 1292.00
461016	W001C180HP04LFP04B12AJRC1G0505TFPAB	Electrohydraulic Actuation with Lever & Stroke Limiter 12V DC	$ 1497.00
461022	W001C180HP04LFP04B24AJRC1G0505TFPAB	Electrohydraulic Actuation with Lever & Stroke Limiter 24V DC	$ 1497.00

EX46 End Plate

Stock No.	Model Code	Description	List Price
97367	KZ20EC	End Plate suit H001, HP05L, HP04L	$ 499.00





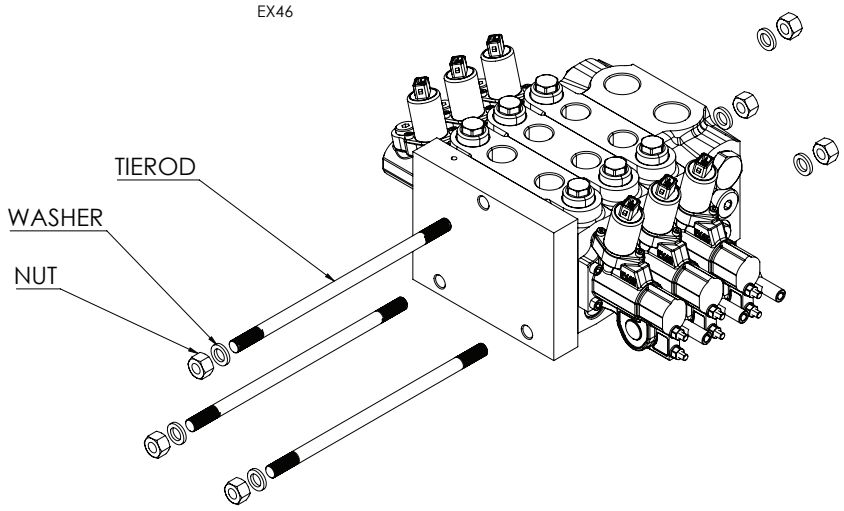
EX46 Proportional, Flow Sharing Valves

Post Compensated Load Sense
Sectional Directional Control Valve. Proportional Operation, Individual Inlets, Outlets and Sections

EX46 Options and Accessories

Stock No.	Model Code	Description	List Price
91508A101	02TFP	Anti Cavitation Valve	$ 149.00
915A10050	03TFP (50)	Combination Valve 50 Bar not Adjustable	$ 163.00
915A10070	03TFP (70)	Combination Valve 70 Bar not Adjustable	$ 163.00
915A10100	03TFP (100)	Combination Valve 100 Bar not Adjustable	$ 163.00
915A10120	03TFP (120)	Combination Valve 120 Bar not Adjustable	$ 163.00
915A10150	03TFP (150)	Combination Valve 150 Bar not Adjustable	$ 163.00
915A10170	03TFP (170)	Combination Valve 170 Bar not Adjustable	$ 163.00
915A10200	03TFP (200)	Combination Valve 200 Bar not Adjustable	$ 163.00
915A10220	03TFP (220)	Combination Valve 220 Bar not Adjustable	$ 163.00
915A10250	03TFP (250)	Combination Valve 250 Bar not Adjustable	$ 163.00
915A10280	03TFP (280)	Combination Valve 280 Bar not Adjustable	$ 163.00
915A10300	03TFP (300)	Combination Valve 300 Bar not Adjustable	$ 163.00
915A10350	03TFP (350)	Combination Valve 350 Bar not Adjustable	$ 163.00
4304A1001	05TFP	Service Port Relief Cavity Plug	$ 56.00
430093100	B12AJ	Proportional Pressure Reducing Cartridge 12V DC	$ 213.00
430093101	B24AJ	Proportional Pressure Reducing Cartridge 24V DC	$ 213.00
430093038	B00AJ	Proportional Pressure Reducing Cavity Plug	$ 213.00
14299		Amp Junior Timer Mate Connector	$ 40.00
3001A1007	Single Tierod	Tierod EX46/1 (3 required)	$33.00
3001A1008	Single Tierod	Tierod EX46/2 (3 required)	$ 36.00
3001A1006	Single Tierod	Tierod EX46/3 (3 required)	$ 39.00
3001A1005	Single Tierod	Tierod EX46/4 (3 required)	$ 41.00
3001A1009	Single Tierod	Tierod EX46/5 (3 required)	$ 44.00
3001A1010	Single Tierod	Tierod EX46/6 (3 required)	$ 46.00
3001A1011	Single Tierod	Tierod EX46/7 (3 required)	$ 49.00
3001A1012	Single Tierod	Tierod EX46/8 (3 required)	$ 51.00

EX46



EX54 Proportional, Flow Sharing Valves

Post Compensated - Flow Sharing
Sectional Directional Control Valve, Proportional Operation
Individual Inlets, Outlets and Sections

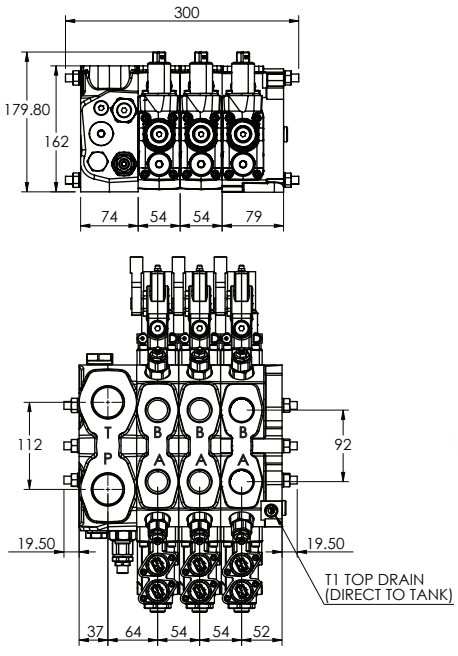
Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
300 LPM	80 US GPM	350 BAR	5000 PSI	1-1/4" BSPP	1" BSPP

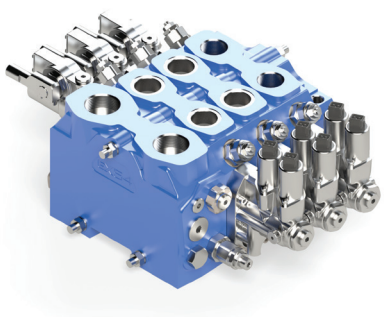
EX54 Inlet Sections

Stock No.	Model Code	Description	List Price
60130683IN	MRV1A250JVRG07	RH Inlet (Variable) with 1A Relief and PRV	$ 1650.00
54002	MRV1A250V3B350KVRG07	RH Inlet (Fixed) with 1A & 3B Relief and PRV	$ 2013.00
54001	MRV1A250JVG07	RH Inlet (Variable) with 1A Relief without PRV	$ 1400.00
54003	MRV1A250V3B350KVG07	RH Inlet (Fixed) with 1A & 3B Relief without PRV	$ 1763.00
915029501	V1A	LS Pressure Relief Cartridge 120-250 Bar	$ 176.00
915029502	V1A	LS Pressure Relief Cartridge 250-350 Bar	$ 176.00
430195001	V2A	"A" Cavity Plug	$ 40.00
915078801	V3B	Full Flow Pressure Relief Cartridge 50-350 Bar	$ 443.00
430488001	V4B	"B" Cavity Plug	$ 50.00
320095002	R	Pressure Reducing Valve Cartridge 1/4"BSPP	$ 350.00
320095005	R	Pressure Reducing Valve Cartridge 9/16"UNO	$ 350.00
430095027	REXT	Cavity Plug PRV for External Pilot Supply 1/4"BSPP	$ 100.00
915040410	V11CC12AJ	LS Unloading Valve 12V	$ 450.00
915040411	V11CC24AJ	LS Unloading Valve 24V	$ 450.00
320098006	KV to JV	Transformation Kit KV to JV	$ 214.00
320098007	JV to KV	Transformation Kit JV to KV	$ 214.00

EX54 Body Sections - (RC) Post Compensated

Stock No.	Model Code	Description	List Price
54029	W001C200HP05LRC1G0605PA05PB	Hydraulic Pilot Actuation with Stroke Limiter	$ 1470.00
54009	W001C200HP04LFP04B12AJRC1G0605PA05PB	Electrohydraulic Actuation with Lever & Stroke Limiter 12V DC	$ 2020.00
54010	W001C200HP04LFP04B24AJRC1G0605PA05PB	Electrohydraulic Actuation with Lever & Stroke Limiter 24V DC	$ 2020.00





EX54 Proportional, Flow Sharing Valves

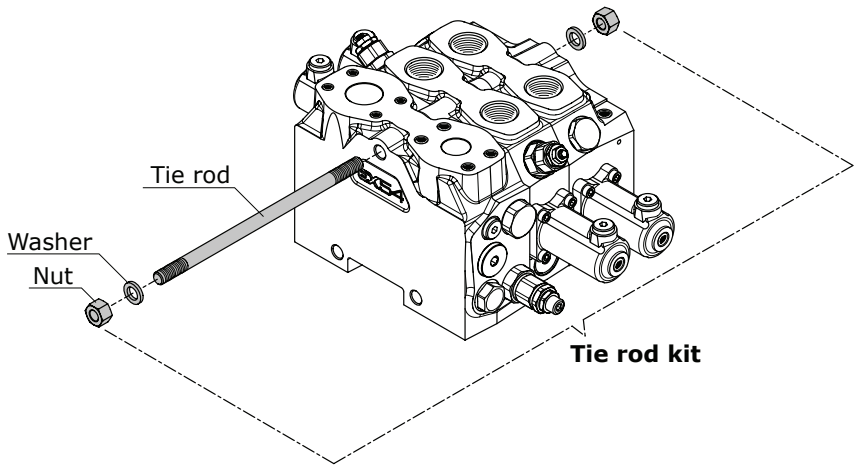
Post Compensated - Flow Sharing
Sectional Directional Control Valve, Proportional Operation
Individual Inlets, Outlets and Sections

EX54 Body and Outlet Combination - (RCK) Post Compensated

Stock No.	Model Code	Description	List Price
54030	W001C200HP05LRCK1AG0605PA05PB	Hydraulic Pilot Actuation with Stroke Limiter	$ 1672.00
54016	W001C150HP04LFP04B12AJRCK1AG0605PA05PB	Electrohydraulic Actuation with Lever & Stroke Limiter 12V DC	$ 2222.00
54013	W001C150HP04LFP04B24AJRCK1AG0605PA05PB	Electrohydraulic Actuation with Lever & Stroke Limiter 24V DC	$ 2222.00

EX54 Options and Accessories

Stock No.	Model Code	Description	List Price
915080601	02P	Service Port Anti Cavitation Valve	$ 132.00
915060601	01P	Service Port Antishock Relief Cartridge 70-120 Bar	$ 132.00
915060602	01P	Service Port Antishock Relief Cartridge 121-200 Bar	$ 132.00
915060603	01P	Service Port Antishock Relief Cartridge 201-250 Bar	$ 132.00
915060604	01P	Service Port Antishock Relief Cartridge 251-350 Bar	$ 132.00
915074501	04P	Service Port Combination Relief Cartridge 50-420 Bar	$ 360.00
430406001	05P	Service Port Cavity Plug	$ 22.00
915009801	RCD1	Section LS Relief 50-170 Bar	$ 320.00
915009802	RCD1	Section LS Relief 171-420 Bar	$ 320.00
430098006	RCS1	External Pilot Section LS Relief	$ 150.00
430093100	B12AJ	Proportional Pressure Reducing Cartridge 12V DC	$ 213.00
430093101	B24AJ	Proportional Pressure Reducing Cartridge 24V DC	$ 213.00
430093038	B00AJ	Proportional Pressure Reducing Cavity Plug	$ 213.00
14299	AMPJT	Amp Junior Timer Mate Connector	$ 40.00
60120864VY	EX54/38	EX54/38 Combination Plate	$ 682.00
350998001	Seal Kit	Section Face Seal Kit	$ 44.00
300198002	Single Tierod	Tierod EX54/1 (3 required)	$ 50.00
300198003	Single Tierod	Tierod EX54/2 (3 required)	$ 50.00
300198004	Single Tierod	Tierod EX54/3 (3 required)	$ 55.00
300198005	Single Tierod	Tierod EX54/4 (3 required)	$ 65.00
300198006	Single Tierod	Tierod EX54/5 (3 required)	$ 65.00
300198007	Single Tierod	Tierod EX54/6 (3 required)	$ 80.00



EX72 Proportional, Flow Sharing Valves

Post Compensated - Flow Sharing
Sectional Directional Control Valve, Proportional Operation
Individual Inlets, Outlets and Sections

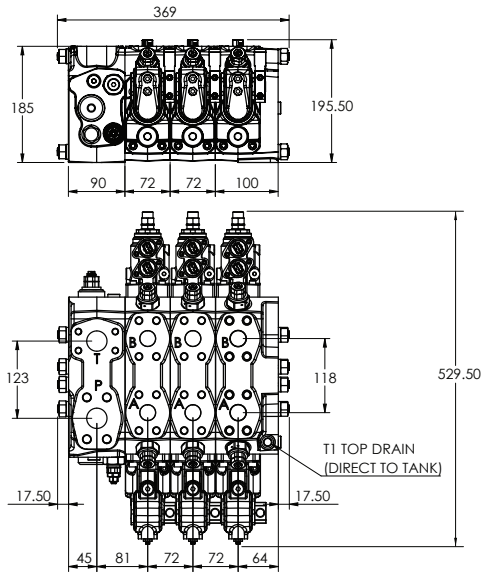
Recommended Maximum Flow		Recommended Maximum Pressure		Inlet/Outlet Port Size	Work Port Size
450 LPM	120 US GPM	350 BAR	5000 PSI	SAE 6000 FLANGE 1-1/4" UNC	SAE 6000 FLANGE 1" UNC

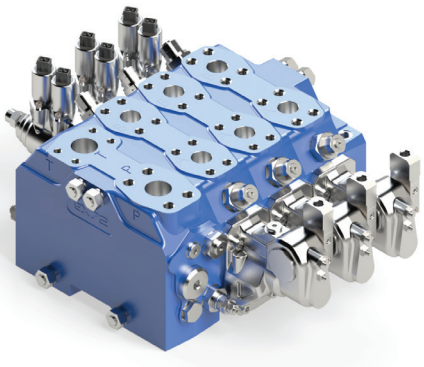
EX72 Inlet Sections

Stock No.	Model Code	Description	List Price
72001	MRV1A250JVRS38	RH Inlet (Variable) with 1A Relief and PRV	$ 2480.00
72002	MRV1A250V3B350KVRS38	RH Inlet (Fixed) with 1A & 3B Relief and PRV	$ 2966.00
72001A	MRV1A250JVS38	RH Inlet (Variable) with 1A Relief without PRV	$ 2230.00
72003	MRV1A250V3B350KVS38	RH Inlet (Fixed) with 1A & 3B Relief without PRV	$ 2270.00
915029501	V1A	LS Pressure Relief Cartridge 120-250 Bar	$ 176.00
915029502	V1A	LS Pressure Relief Cartridge 250-350 Bar	$ 176.00
430195001	V2A	"A" Cavity Plug	$ 40.00
915079501	V3B	Full Flow Pressure Relief Cartridge 50-400 Bar	$ 443.00
430488001	V4B	"B" Cavity Plug	$ 50.00
320095002	R	Pressure Reducing Valve Cartridge 1/4"BSPP	$ 350.00
320095005	R	Pressure Reducing Valve Cartridge 9/16"UNO	$ 350.00
430095027	REXT	Cavity Plug PRV for External Pilot Supply 1/4"BSPP	$ 100.00
915040410	V11CC12AJ	LS Unloading Valve 12V	$ 450.00
915040411	V11CC24AJ	LS Unloading Valve 24V	$ 450.00
320095003	KV to JV	Transformation Kit KV to JV	$ 260.00
320095004	JV to KV	Transformation Kit JV to KV	$ 260.00

EX72 Body Sections - (RC) Post Compensated

Stock No.	Model Code	Description	List Price
72005	W001C250HP05LRC1S3605PA05PB	Hydraulic Pilot Actuation with Stroke Limiter	$ 2046.00
72006	W001C250HP04LFP04B12AJRC1S3605PA05PB	Electrohydraulic Actuation with Lever & Stroke Limiter 12V DC	$ 2640.00
72007	W001C250HP04LFP04B24AJRC1S3605PA05PB	Electrohydraulic Actuation with Lever & Stroke Limiter 24V DC	$ 2640.00





EX72 Proportional, Flow Sharing Valves

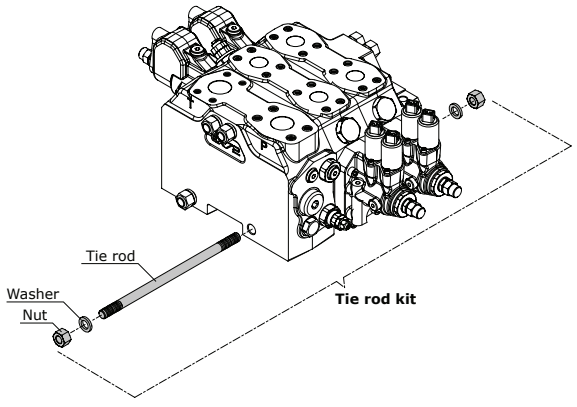
Post Compensated - Flow Sharing
Sectional Directional Control Valve, Proportional Operation
Individual Inlets, Outlets and Sections

EX72 Body and Outlet Combination - (RCK) Post Compensated

Stock No.	Model Code	Description	List Price
72009	W001C250HP05LRCK1AS3605PA05PB	Hydraulic Pilot Actuation with Stroke Limiter	$ 2266.00
72010	W001C250HP04LFP04B12AJRCK1AS3605PA05PB	Electrohydraulic Actuation with Lever & Stroke Limiter 12V DC	$ 2860.00
72011	W001C250HP04LFP04B24AJRCK1AS3605PA05PB	Electrohydraulic Actuation with Lever & Stroke Limiter 24V DC	$ 2860.00

EX72 Options and Accessories

Stock No.	Model Code	Description	List Price
915088801	02P	Service Port Anti Cavitation Valve	$ 132.00
915068804	01P	Service Port Antishock Relief Cartridge 60-100 Bar	$ 300.00
915068805	01P	Service Port Antishock Relief Cartridge 101-160 Bar	$ 300.00
915068806	01P	Service Port Antishock Relief Cartridge 161-250 Bar	$ 300.00
915078801	04P	Service Port Combination Relief Cartridge 50-350 Bar	$ 443.00
430488001	05P	Service Port Cavity Plug	$ 50.00
915029506	RCD1	Section LS Relief 70-180 Bar	$ 320.00
915029503	RCD1	Section LS Relief 181-280 Bar	$ 320.00
915029504	RCD1	Section LS Relief 281-350 Bar	$ 320.00
915029505	RCD1	Section LS Relief 351-420 Bar	$ 320.00
430095020	RCS1	External Pilot Section LS Relief	$ 260.00
430093100	B12AJ	Proportional Pressure Reducing Cartridge 12V DC	$ 213.00
430093101	B24AJ	Proportional Pressure Reducing Cartridge 24V DC	$ 213.00
430093038	B00AJ	Proportional Pressure Reducing Cavity Plug	$ 213.00
14299	AMPJT	Amp Junior Timer Mate Connector	$ 40.00
60120494VY	EX72/38	EX72/38 Combination Plate	$ 763.00
350995001	Seal Kit	Section Face Seal Kit	$ 80.00
300195003	Single Tierod	Tierod EX72/1 (3 required)	$ 110.00
300195002	Single Tierod	Tierod EX72/2 (3 required)	$ 120.00
300195009	Single Tierod	Tierod EX72/3 (3 required)	$ 130.00
300195001	Single Tierod	Tierod EX72/4 (3 required)	$ 140.00
300195007	Single Tierod	Tierod EX72/5 (3 required)	$ 150.00
300195004	Single Tierod	Tierod EX72/6 (3 required)	$ 160.00



Notes

Section 1B

Electronics & Accessories

MAKE	MODEL	PAGE
Faber-Com	MAP2 Electronic Joysticks	1B.92
Faber-Com	MAP2L Electronic Joysticks	1B.92
Tecnord	JLP Electronic Joysticks	1B.93
Tecnord	FPR Hall Effect Proportional Thumb Roller	1B.93
Faber-Com	VPP3 Rotary Knob PWM Proportional Controllers	1B.93
Tecnord	JMT Electronic Joysticks	1B.94
Faber-Com	MANP Electronic Joysticks	1B.94
Tecnord	JHM Electronic Joysticks	1B.95
Tecnord	JMF Electronic Joysticks	1B.95
Tecnord	Ergonomic Handles	1B.96
Tecnord	MS & MG Handles, Options & Accessories	1B.97
Various	ECU Electronic Control Units	1B.98
Various	ECU Electronic Control Units	1B.99
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Various	Calibration Kits	1B.101
Cross Controls	REM2B Radio Remote Controls	1B.102
Cross Controls	REM4B Radio Remote Controls	1B.103
Cross Controls	RCR Radio Remote Controls	1B.104
Cross Controls	RCR Radio Remote Controls	1B.105
Brand Hydraulics	Radio Remote Controls - V Series	1B.106
Scanreco	Radio Remote Proportional Controls	1B.107
Various	Wired Remote Control Unit	1B.108
Faber-Com	Control Boxes	1B.109
Various	Wiring Loom	1B.110

MAKE	MODEL	PAGE

MAP2 Electronic Joysticks

Heavy Duty Single-Axis Hall Effect Electronic Joystick

MAP Hall Effect Series - Pulse Width Modulation (PWM) Current Output - Knob with Lens Included

Stock No.	Model Code	Axis	Output PWM	Input Power Supply Range	Calibration/ Adjustment	Joystick Base	List Price
PMAP2SSAR	MAP2AR	Single	100-2500mA (PWM Frequency 50-300 Hz)	10-30V DC	PC Programmable		$ 862.00
PMAP2SSAF	MAP2AF	Single c/w Friction					$ 920.00

B, D, Handles

Stock No.	Model Code	Description	B,D Handles	List Price
RCMBWA70	Type B	Cylindrical Grip with Microswitch to Close		$ 169.00
RCMDWA70	Type D	Cylindrical Grip with Dual Microswitch (Rocker Switch)		$ 169.00

MAP2L Electronic Joysticks

Single-Axis Hall Effect Electronic Fingertip Joystick

MAP2L Hall Effect Series - Pulse Width Modulation (PWM) Current Output

Stock No.	Model Code	Axis	Output PWM	Input Power Supply Range	Calibration/ Adjustment	Joystick Paddle Lever	List Price
MAP2SSLR	MAP2LAR	Single	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 985.00
MAP2SSLF	MAP2LAF	Single c/w Friction					$ 1042.00
MAP2SSLRRED	MAP2LARRED	Single Red Paddle	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 985.00
MAP2SSLFRED	MAP2LAFRED	Single Red Paddle c/w Friction					$ 1042.00

JLP Electronic Joysticks

Single-Axis Fingertip Joystick

JLP Series - Analogue Voltage Output

Stock No.	Model Code	Axis	Output	Input Power Supply Range	Calibration/ Adjustment	Joystick Panel Mount	List Price
JLPL2SQ0IPD	JLP-L2S	Single	80% VIN	48 or +/- 24VDC	Nil		$170.00

FPR Hall Effect Proportional Thumb Roller

FPR Series - Analogue Voltage Output

Stock No.	Model Code	Axis	Output	Input Power Supply Range	Calibration/ Adjustment	MS Handle or Panel Mount	List Price
200107093	FPR-L2S-SNCH-H	Single	0.5<2.5<4.5 V	8-32VDC	Nil		$ 143.00
200107095	FPR-L2S-TWCH-H	Single					$ 202.00

VPP3 Rotary Knob PWM Proportional Controllers

VPP3 Series - Pulse Width Modulation (PWM) Current Output

Stock No.	Model Code	Axis	Output PWM	Input Power Supply Range	Calibration/ Adjustment	Panel Mount	List Price
PVPP3S1	VPP3-S1	Single	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 833.00
PVPP3S2	VPP3-S2	Single					$ 833.00
PVPP3D1	VPP3-D1	Double	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 990.00
PVPP3D2	VPP3-D2	Double					$ 990.00

JMT Electronic Joysticks

Multi-Axis Hall Effect Electronic Thumb Roller

JMT Series - Analogue Voltage Output

Stock No.	Model Code	Axis	Output	Input Power Supply Range	Calibration/ Adjustment	MS Handle or Panel Mount	List Price
200107165A	JMT	Multi	0.5-4.5V	5VDC	Nil		$ 310.00

MANP Electronic Joysticks

Two & Three-Axis Fingertip Joystick

MANP Series - Potentiometric Analogue Voltage Output

Stock No.	Model Code	Axis	Output	Input Power Supply Range	Calibration/ Adjustment	Joystick Panel Mount	List Price
A1000380400	MANP2	Two	27-73% VIN	30VDC Max	Nil		$ 1127.00
A1000380402	MANP3	Three	27-73% VIN	30VDC Max	Nil		$ 1495.00

MANP Series - Hall Effect Analogue Voltage Output

A1000380602	MANP4	Two	1.1-3.9V	5VDC	Nil		$ 805.00

JHM Electronic Joysticks

Heavy Duty Multi-Axis Hall Effect Electronic Joystick

JMF Potentiometric Series - Pulse Width Modulation (PWM) Current Output & Analog Voltage Output - Base Only, Handle Not Included. Refer to MS, MG, IE, M, B, D Handles.

Stock No.	Model Code	Axis	Output	Input Power Supply Range	Calibration/ Adjustment	Joystick	List Price
JHML2SPWM3	JHM-L2S/PWM-3	Single	100-1600mA (PWM Frequency 60-250 Hz)	8-32VDC	PC Programmable		$ 1188.00
JHML4CPWM3	JHM-L4C/PWM-3	Cross Dual	100-1600mA (PWM Frequency 60-250 Hz)	8-32VDC	PC Programmable		$ 1188.00
JHML4DPWM3	JHM-L4D/PWM-3	Multi	100-1600mA (PWM Frequency 60-250 Hz)	8-32VDC	PC Programmable		$ 1188.00
JHML4CANH3	JHM-L4C/ANH-3	Cross Dual	0.5-4.5V	8-32VDC	PC Programmable		$ 800.00

JMF Electronic Joysticks

Heavy Duty Multi-Axis Potentiometric Joystick

JMF Hall Effect Series - Analogue Voltage Output - Base Only, Handle Not Included. Refer To MS, MG, IE, M, B, D Handles

Stock No.	Model Code	Axis	Output	Input Power Supply Range	Calibration/ Adjustment	Joystick	List Price
JMFL4DNN1	JMF-L4D/ NN-1	Multi	5KΩ 0%-100% VIN Signal	48V or +/- 24V DC	Nil		$ 845.00

Ergonomic Handles

MS Series

Stock No.	Model Code	Description	Handle MS	List Price
MS00000000	MS/0/00/A/00/A	Blank		$ 180.00
MS002A00A	MS/0/02/A/00/A	Front: 2P9 Rear: Blank		$ 236.00
MS005A00A	MS/0/05/A/00/A	Front: 3P9 Rear: Blank		$ 260.00
MS006A00A	MS/0/06/A/00/A	Front: 4P9 Rear: Blank		$ 342.00
MS011C00A	MS/0/11/A/00/A	Front: 1FPRPWM Trim Adj Rear: Blank		$ 410.00
MS016C00A	MS/0/16/C/00/A	Front: 2P9 1FPRPWM Trim Adj Rear: Blank		$ 526.00
MSA0000000	MS/A/00/A/00/A	Blank c/w Dead Man Trigger		$ 252.00
MSA02A00A	MS/A/02/A/00/A	Front: 2P9 Rear: Blank c/w Dead Man Trigger		$ 302.00
MSA05A00A	MS/A/05/A/00/A	Front: 3P9 Rear: Blank c/w Dead Man Trigger		$ 326.00
MSA06A00A	MS/A/06/A/00/A	Front: 4P9 Rear: Blank c/w Dead Man Trigger		$ 408.00
MSA11C00A	MS/A/11/A/00/A	Front: 1FPRPWM Trim Adj Rear: Blank c/w Dead Man Trigger		$ 476.00
MSA16C00A	MS/A/16/C/00/A	Front: 2P9 1FPRPWM Trim Adj Rear: Blank c/w Dead Man Trigger		$ 592.00

MG Series - Right Hand Thumb Rest

Stock No.	Model Code	Description	Handle MG	List Price
MG00000000	MG/0/00/A/00/A	Blank		$ 180.00
MG002A00A	MG/0/02/A/00/A	Front: 2P9 Rear: Blank		$ 236.00
MG005A00A	MG/0/05/A/00/A	Front: 1FPRPWM Trim Adj Rear: Blank		$ 410.00
MG006A00A	MG/0/06/A/00/A	Front: 2P9 1FPRPWM Trim Adj Rear: Blank		$ 526.00
MG007A00A	MG/0/07/A/00/A	Front: 4P9 1FPRPWM Trim Adj Rear: Blank		$ 632.00
MGA0000000	MG/A/00/A/00/A	Blank c/w Dead Man Trigger		$ 252.00
MGA02A00A	MG/A/02/A/00/A	Front: 2P9 Rear: Blank c/w Dead Man Trigger		$ 302.00
MGA05A00A	MG/A/05/A/00/A	Front 1FPRPWM Trim Adj Rear: Blank c/w Dead Man Trigger		$ 476.00
MGA06A00A	MG/A/06/A/00/A	Front: 2P9 1FPRPWM Trim Adj Rear: Blank c/w Dead Man Trigger		$ 592.00
MGA07A00A	MG/A/07/A/00/A	Front: 4P9 1FPRPWM Trim Adj Rear: Blank c/w Dead Man Trigger		$ 698.00

IE Series

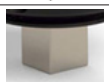
Stock No.	Model Code	Description	Handle IE	List Price
IE00000000	IE/0000/0000	Blank		$ 89.00
IE02P90000	IE/02P9/0000	Rear: 2P9		$ 221.00
IE03P90000	IE/03P9/0000	Rear:3P9		$ 271.00
IEA3P90000	IE/A3P9/0000	Rear: 3P9 c/w Dead Man P9		$ 321.00

M, B, & D Clyindrical Handles

Stock No.	Model Code	Description	Handle M, B, D	List Price
RCMMWE70	Type M	Blank		$ 28.00
RCMBWA70	Type B	Microswitch to Close		$ 169.00
RCMDWA70	Type D	Dual Microswitch (Rocker Switch)		$ 169.00

MS & MG Handles, Options & Accessories

MS & MG Series

Stock No.	Model Code	Description	Handle MS & MG	List Price
130310535	P9 YELLOW	Momentary Push Button Yellow IP64		$ 48.00
130310549	P9 RED	Momentary Push Button Red IP64		$ 48.00
130310551	P9 BLUE	Momentary Push Button Blue IP64		$ 48.00
130310553	P9 GREEN	Momentary Push Button Green IP64		$ 48.00
130310557	P9 ORANGE	Momentary Push Button Orange IP64		$ 48.00
501301331	P9L LED YELLOW	Momentary Push Button Led Yellow IP64		$ 85.00
501301325	P9L LED RED	Momentary Push Button Led Red IP64		$ 85.00
501301332	P9L LED BLUE	Momentary Push Button Led Blue IP64		$ 85.00
501301324	P9L LED GREEN	Momentary Push Button Led Green IP64		$ 85.00
501301330	P9L LED AMBER	Momentary Push Button Led Amber IP64		$ 85.00
501301327	P9 PRB	P9 & P9L Protective Rubber Boot		$ 14.00
200107093	FPR-L2S-SNCH-H	FPR Thumb Roller Single Channel Analog Output 0.5-4.5V Input 8-32VDC		$ 143.00
200107095	FPR-L2S-TWCH-H	FPR Thumb Roller Tween Channel Analog Output 0.5-4.5V Input 8-32VDC		$ 202.00
501301500	DFF	Rocker Switch Latched On-Off-On IP67		$ 55.00
501301504	K1	Rocker Switch Latched FWD-NEU-REV IP68S		$ 89.00
200107165A	JMT	Thumb Joystick Analog Output 0.5-4.5V Input 5VDC		$ 310.00
130501286	GRIP ADAPTOR	Grip Adaptor M14X1.5		$ 30.00

ECU Electronic Control Units

Stock No.	Model Code	Coil	Output PWM Adj 100-500Hz	Power Supply Range Input	Calibration/ Adjustment	ECU	List Price
EL000001	EPC H02	One	DIN43650 Plug /50-2000mA/Ramp Up & Down 0.1-10sec/IP65	12-30VDC 2-10KΩ or 0-10VDC	Trim Adj		$ 477.00
Stock No.	**Model Code**	**Coil**	**Output PWM 100Hz**	**Power Supply Range Input**	**Calibration/ Adjustment**	**ECU**	**List Price**
230409138	EC-PWM-A2-MPC1-H	Two	Deutsch DT04-8P Plug /100-1500mA/IP68	8-32VDC 0.5-4.5VDC	Trim Adj		$ 396.00
Stock No.	**Model Code**	**Coil**	**Output PWM 50-330Hz**	**Power Supply Range Input Switchable Jumper**	**Calibration/ Adjustment**	**ECU**	**List Price**
PVPUMA	VPUD-M	Two	Undecal Connector /50-2500mA/Ramp Up & Down 0.1-5sec Trim Adj	10.5-30VDC -5/0/+5V	Trim Adj		$ 575.00
PVPUMB	VPUD-M	Two		10.5-30VDC 0/5/10V			$ 575.00
PVPUMC	VPUD-M	Two		10.5-30VDC 25/50/75%VIN			$ 575.00
A2007700041	Undecal Connector	Din Rail Undecal ES11 Mount Connector 11 Poles					$ 58.00
Stock No.	**Model Code**	**Coil**	**Output PWM Adj**	**Power Supply Range Input CANbus or Analogue**	**Calibration/ Adjustment**	**ECU**	**List Price**
230409326	Smart PWM Driver Single	One	Deutsch DT04-2P Solenoid/Deutsch DT06-6S Harness/0-1600mA/IP69K/Ramp Up & Down Adj/Non -Linear Adjustment/Suit IPDAR43CDT12L2500 and IPDAR43CDT24L2500	8-30VDC 0.5-4.5VDC	PC Programmable/ CANbus Communication Parameters/See Calibration Tool and CAN-USB Converter at page 1B.89		$ 400.00
230409327	Smart PWM Driver Double	Two		8-30VDC 0.5-2.5-4.5VDC			$ 500.00

ECU Electronic Control Units

Stock No.	Model Code	Coil	Output PWM 50-300Hz	Power Supply Range Input	Calibration/ Adjustment	ECU	List Price
183380008	PVD200PHC200F	One or Two	Deutsch DT06-08SA&B/0.5-2.5-4.5V/ IP67-69K with mating connector fitted	8-32VDC 0.5-4.5VDC	PC Programmable/ CANbus Communication Parameters/See Calibration Tool and CAN-USB Converter at page 1B.89		$ 410.00

Stock No.	Model Code	Coil	Output PWM	Power Supply Range Input	Calibration/ Adjustment	ECU	List Price
230409237	MDE-PWM	Four	100 -2500mA/Ramp Up-Down 0.1-10s/IP68/50-300Hz	10-30VDC 0.5-4.5VDC	PC Programmable		$ 594.00
230409081	EC-PWM-P4-MPC4-H	Eight	100-1500mA/IP67/75-250Hz	9-30VDC 0-5V	PC Programmable		$ 693.00
PSCH54PV3E2	EC-PWM-P8-MPC4-H	Six	100-1500mA/IP67/75-250Hz	9-30VDC 0-5V	PC Programmable		$ 950.00
183339009	CED400W	Eight		8-32VDC 0/5/10V	PC Programmable/ Custom Application Programmable by IEC61131-3 Language		$ 1200.00
ECS8	ECS8	Sixteen	2500mA/IP67	8-36VDC 0-5V,0-10V, 4-20mA,25-75%VIN	PC Programmable via BlueTooth		$ 1800.00

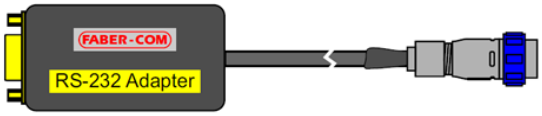
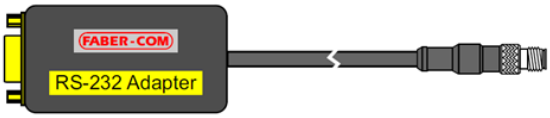
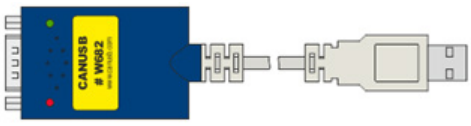
VRG Series Ramp Generators - Smooth ON-OFF Controls

Stock No.	Model Code	Version	Output	Power Supply Range	Calibration/ Adjustment	VRG	List Price
PVRGPP	VRGPP	Panel Mount	50-2500mA/IP67/PWM 50-300Hz	10-30VDC	PC Programmable		$ 920.00
PVRGPS	VRGPS	Panel Mount	0.5-2.5-4.5V/0-5-10V/ IP67	10-30VDC	PC Programmable		$ 920.00
PVRGSP	VRGSP	Box Mount	50-2500mA/IP67/ PWM 50-300Hz	10-30VDC	PC Programmable		$ 805.00
PVRGSS	VRGSS	Box Mount	0.5-2.5-4.5V/0-5-10V/ IP67	10-30VDC	PC Programmable		$ 805.00

Speed Controls

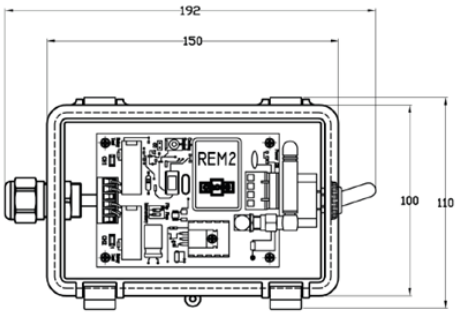
Stock No.	Model Code	Coil	Output PWM	Power Supply Range Input	Calibration/ Adjustment	EC Series	List Price
EC1202S	EC Series Panel Mount Rotary Knob Control	One	12V/1500mA Max/100 +-5Hz	12.7-18VDC	Nil		$ 880.00
EC1201L	EC Series Aluminium Box Rotary Knob Control	One	12V/1500mA Max/100Hz	12.7-18VDC	Nil		$ 1100.00
EC20200	EC Series Rotary Knob Control	One	2000mA/107 +-5Hz/IP66	12-30VDC	Nil		$ 1300.00
EC20400	EC Series Paddle Control	Two	2000mA/107 +-5Hz/IP66	12-30VDC	Trim Adj		$ 1755.00
EC20300	EC Series Sealed Interface Control	One	2000mA/107 +-5Hz/IP66	12-30VDC 0-10V/0-5V/4-20mA	Trim Adj		$ 1185.00
EC20100	EC Series Spreader Control	Two	2000mA/100 +-5Hz/IP66	12-26VDC	Trim Adj		$ 1990.00

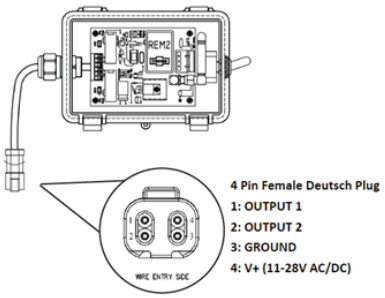
Calibration Kits

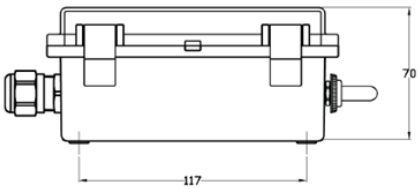
Stock No.	Model Code	Kit	Suit	List Price
201001026A	AMP SEAL - DB9 connecting cable with calibration software		Suit ECP4 & ECP8 Series	$ 340.00
210801055A	Deutsch - DB9 connecting cable with calibration software		Suit Joystick JHM PWM Series	$ 340.00
PISPB	Calibration Kit with software		RS232-Bulgin Buccaneer Connector suit MDE, STU-PWMi Series	$ 518.00
PISPR	Calibration Kit with software		RS232-M8 Connector suit MAP2, MAP3, MAP2L, VPP3, VRG, CRCA Series	$ 518.00
PCABABS	Connector Adapting Cable		Suit PISPB,PRG2B, STU-PWM Series	$ 173.00
502205227	RS232-USB Converter		Suit 201001026A, 210801055A, PISPR, PISPB	$ 115.00
PRG2R	PRG2 Programming Keyboard for onsight fine tuning		M8 Connector suit MAP2, MAP3, MAP2L, VPP3, VRG, CRCA Series	$ 460.00
PRG2B	PRG2 Programming Keyboard for onsight fine tuning		Bulgin Buccaneer Connector suit MDE, STU-PWMi Series	$ 460.00
2100801075	Calibration Kit with software		Suit SMART PWM DRIVER Code 230409326 & 230409327	$ 500.00
210801040	CAN-USB Converter		Suit Code 210801040	$ 500.00

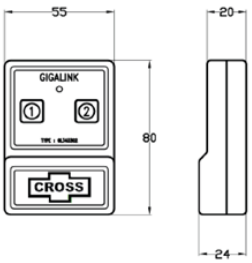
REM2B Radio Remote Controls

Stock No.	Number of Functions	Frequency Range	Manual Overrides	Power Supply Voltage	Antenna	Receiver Transmitter	List Price
REM2BOBAS	2 Function 2 Button	433 MHz Standard 915MHz Optional 100m in open space	Without Manual Overrides	12/24 VDC	Built in Loop Antenna External Optional	IP66 IP55	$ 600.00
REM2BABAS	2 Function 2 Button	433 MHz Standard 915MHz Optional 100m in open space	With Manual Overrides	12/24 VDC	Built in Loop Antenna External Optional	IP66 IP55	$ 680.00
GLT43302A	2 Button Transmitter Spare Part						$ 200.00



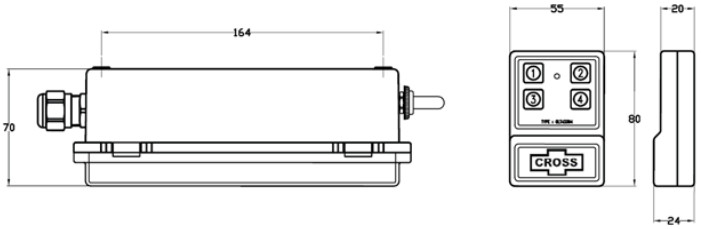


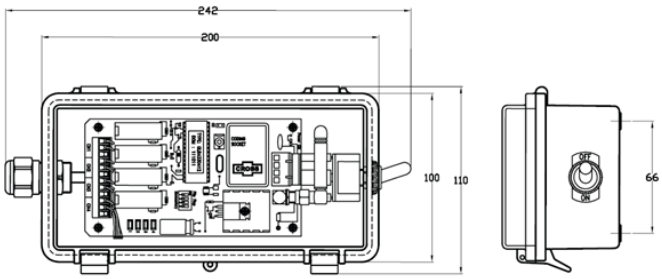




REM4B Radio Remote Controls

Stock No.	Number of Functions	Frequency Range	Power Supply Voltage	Antenna	Receiver Transmitter	List Price
REM4BOBAS	4 Function 4 Button	433 MHz Standard 915MHz Optional 100m in open space	12/24 VDC	Built in Loop Antenna External Optional	IP66 IP55	$ 650.00
GLT43304A	4 Button Transmitter Spare Part					$ 250.00

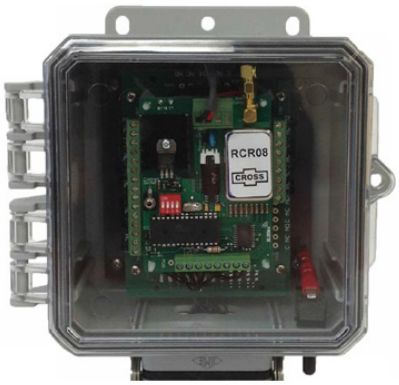


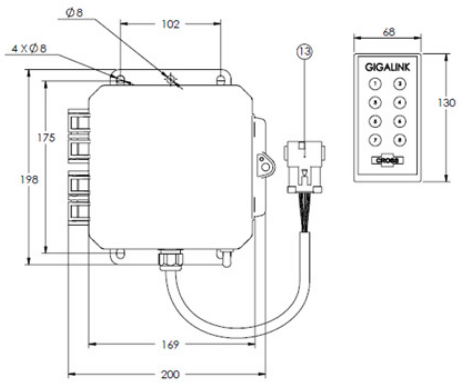


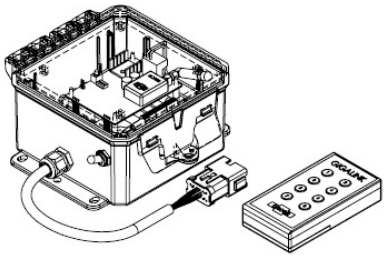
RCR Radio Remote Controls

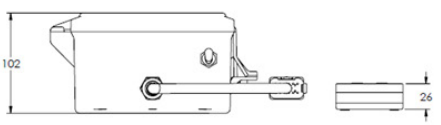
4, 6, & 8 Channel Radio Remote Control Receiver & Transmitter

Stock No.	Number of Functions	Frequency Range	Power Supply Voltage	Antenna	Receiver Transmitter	List Price
RCR04A00AA01C	4 Function 4 Button	433 MHz Standard 915MHz Optional 100m in open space	12/24 VDC	Built in Loop Antenna External Optional	IP68 IP55	$ 800.00
GLT43304A	4 Button Transmitter Spare Part					$ 250.00
RCR06A00AA01C	6 Function 6 Button	433 MHz Standard 915MHz Optional 100m in open space	12/24 VDC	Built in Loop Antenna External Optional	IP68 IP55	$ 1000.00
RCR08A00AA01C	8 Function 8 Button	433 MHz Standard 915MHz Optional 100m in open space	12/24 VDC	Built in Loop Antenna External Optional	IP68 IP55	$ 1100.00
GLT43308A	8 Button Transmitter Spare Part					$ 350.00





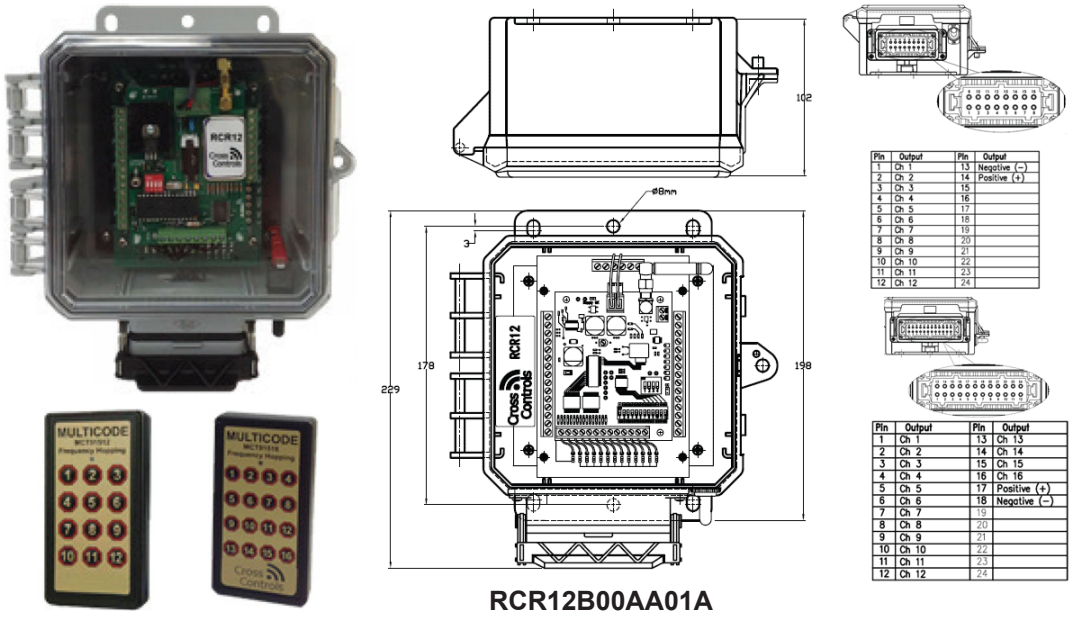




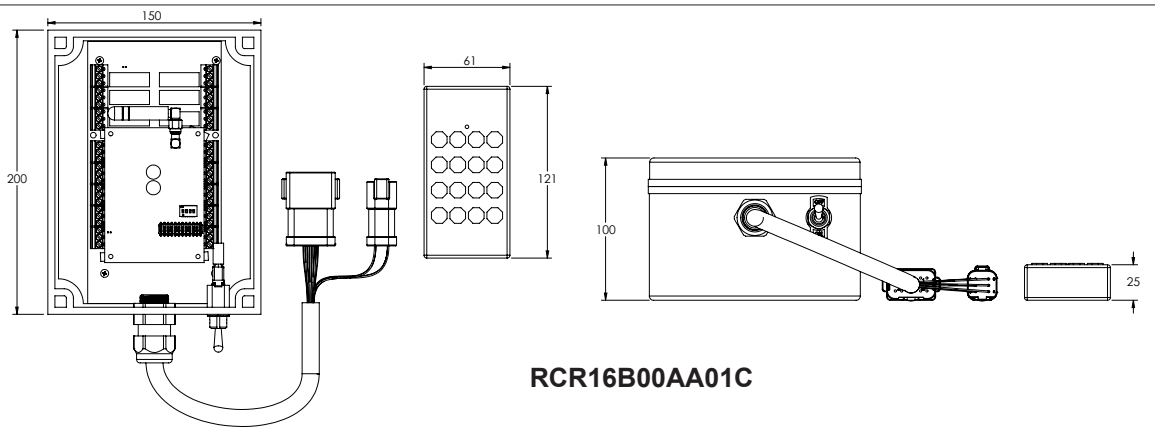
RCR Radio Remote Controls

12 & 16 Channel Radio Remote Control Receiver & Transmitter

Stock No.	Number of Functions	Frequency Range	Power Supply Voltage	Antenna	Receiver Transmitter	List Price
RCR12B00AA01A	12 Function 12 Button	915 MHz 100m in open space	12/24 VDC	Built in Loop Antenna External Optional	IP68 IP55	$ 1200.00
MCT91512	12 Button Transmitter Spare Part					$ 286.00
RCR16B00AA01C	16 Function 16 Button	915MHz 100m in open space	12/24 VDC	Built in Loop Antenna External Optional	IP68 IP55	$ 1400.00
MCT91516	16 Button Transmitter Spare Part					$ 308.00



RCR12B00AA01A

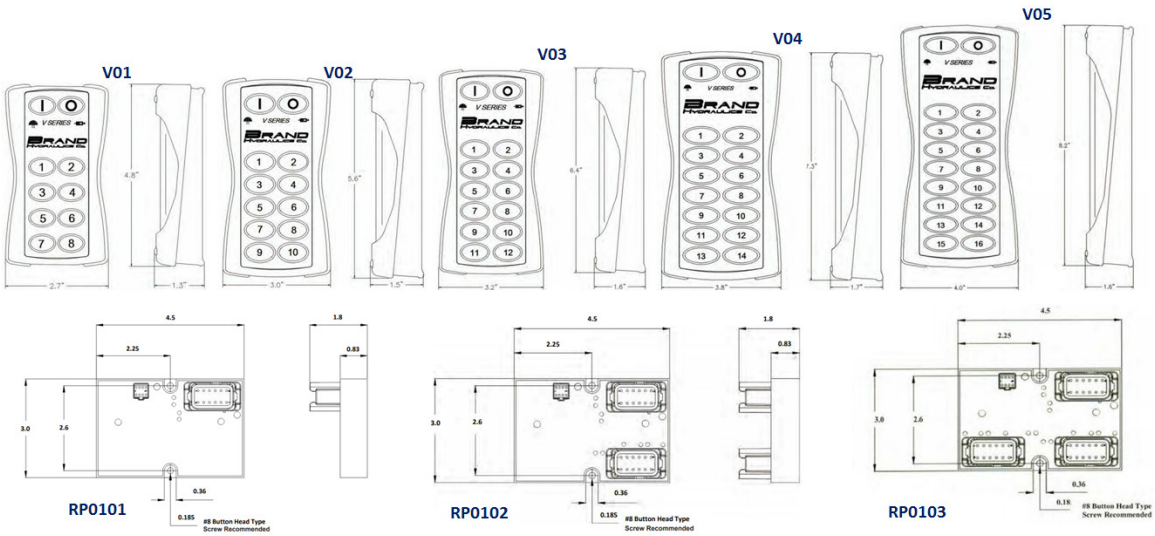


RCR16B00AA01C

Radio Remote Controls - V Series

V Series

Stock No.	Number of Functions	Frequency Range	Power Supply Voltage Output	Antenna Protection	Receiver Transmitter	Suit	List Price
V0102	2 Function 2 Button	2.4 GHz 150m in open space	8-30 VDC Current per Output 3A Total Max Current 6A	Built in Antenna IP65	RP01000001 V0100020000 Not Programmable		$ 475.00
V0104	4 Function 4 Button	2.4 GHz 150m in open space	8-30 VDC Current per Output 3A Total Max Current 6A	Built in Antenna IP65	RP01000002 V0100040000 Not Programmable		$ 800.00
V0106	6 Function 6 Button	2.4 GHz 150m in open space	8-30 VDC Current per Output 3A Total Max Current 6A	Built in Antenna IP65	RP01000002 V0100060000 Not Programmable		$ 800.00
V0108	8 Function 8 Button	2.4 GHz 150m in open space	8-30 VDC Current per Output 3A Total Max Current 6A	Built in Antenna IP65	RP01000002 V0100080000 Not Programmable		$ 880.00
V0110	10 Function 10 Button	2.4 GHz 150m in open space	8-30 VDC Current per Output 3A Total Max Current 6A	Built in Antenna IP65	RP01000002 V0200010000 Not Programmable		$ 1045.00
V0112	12 Function 12 Button	2.4 GHz 150m in open space	8-30 VDC Current per Output 3A Total Max Current 6A	Built in Antenna IP65	RP01000003 V0300012000 Not Programmable		$ 1200.00
V0114	14 Function 14 Button	2.4 GHz 150m in open space	8-30 VDC Current per Output 3A Total Max Current 6A	Built in Antenna IP65	RP01000003 V0400014000 Not Programmable		$ 1400.00
V0116	16 Function 16 Button	2.4 GHz 150m in open space	8-30 VDC Current per Output 3A Total Max Current 6A	Built in Antenna IP65	RP01000003 V0500016000 Not Programmable		$ 1550.00



Radio Remote Proportional Controls

Radio Remote Proportional Controls - SCANRECO

Stock No.	Number of Functions	Frequency Range	Power Supply Voltage Communication Tye	Antenna Protection	Receiver Transmitter	Suit	List Price
PR5MBM12S	2 Function 2 Linear Lever	433-434 or 902-928 MHz >100m in open space	12 VDC Two Way	Built in Antenna IP65	G2B MINI Programmable		$ 6210.00
PR5MBM22S	2 Function 2 Linear Lever	433-434 or 902-928 MHz >100m in open space	24 VDC Two Way	Built in Antenna IP65	G2B MINI Programmable		$ 6210.00
PR5MBM14S	4 Function 4 Linear Lever	433-434 or 902-928 MHz >100m in open space	12 VDC Two Way	Built in Antenna IP65	G2B MINI Programmable		$ 7245.00
PR5MBM24S	4 Function 4 Linear Lever	433-434 or 902-928 MHz >100m in open space	24 VDC Two Way	Built in Antenna IP65	G2B MINI Programmable		$ 7245.00
PR5MBM16S	6 Function 6 Linear Lever	433-434 or 902-928 MHz >100m in open space	12 VDC Two Way	Built in Antenna IP65	G2B MINI Programmable		$ 7590.00
PR5MBM26S	6 Function 6 Linear Lever	433-434 or 902-928 MHz >100m in open space	24 VDC Two Way	Built in Antenna IP65	G2B MINI Programmable		$ 7590.00
PT5MBM16S	6 Function 6 Linear Lever	Wired	12 VDC Cable Length 10 meters	IP 65	G2B MINI Programmable		$ 5405.00
PT5MBM26S	6 Function 6 Linear Lever	Wired	24 VDC Cable Length 10 meters	IP 65	G2B MINI Programmable		$ 5405.00
PRMB016P	5 Function 10 Proportional Button	433-434 or 902-928 MHz >100m in open space	12 VDC Two Way	Built in Antenna IP65	G4 HANDY Programmable		$ 4485.00
PRMB026P	5 Function 10 Proportional Button	433-434 or 902-928 MHz >100m in open space	24 VDC Two Way	Built in Antenna IP65	G4 HANDY Programmable		$ 4485.00

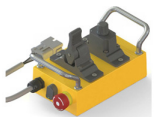
G28 Receiver & MINI Transmitter Accessories and Spare Parts

Stock No.	Description	Suit	List Price
	Firmware Programming	Add To List	$ 300.00
A3000380110	Neck Strap for MINI Transmitter	G2B Receiver MINI Transmitter	$ 280.00
A3000391003	Shoulder Vest for MINI Transmitter		$ 564.00
A2000380100	Dry Battery 2000mA Type 592		$ 564.00
F1700360002	Battery Charger 10-30 VDC Type 434		$ 644.00

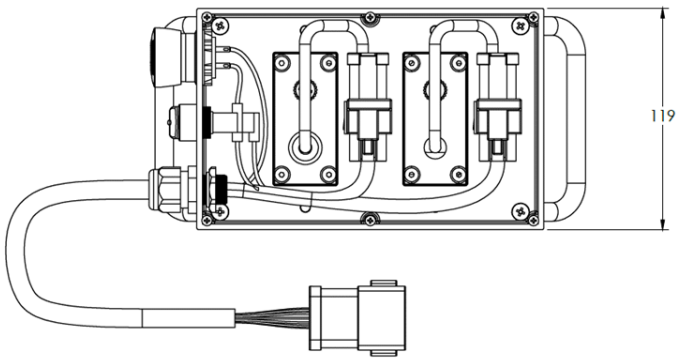
Wired Remote Control Unit

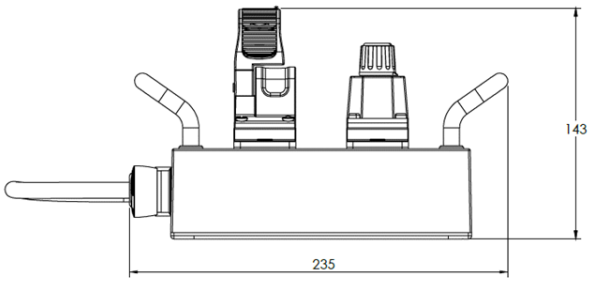
Two & Three PWM Proportional Functions

CRCA Series - Pulse Width Modulation (PWM) - LED Power Switch and E-Stop - Solenoid Unloading Valve Output - Cable 300mm with Deutsch Connector - Yellow RAL1003

Stock No.	Number of Functions	Coil	Output PWM	Input Power Supply Range	Calibration/ Adjustment	CRCA Series	List Price
CRCA3001	1 Linear Lever 1 Rotary Knob	3 Proportional Coils	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 2638.00
CRCA4001	1 Linear Lever 1 Rotary Knob	4 Proportional Coils	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 2795.00
CRCA4002	2 Linear Lever	4 Proportional Coils	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 2610.00
CRCA4003	2 Rotary Knob	4 Proportional Coils	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 2980.00
CRCA4005	2 Rotary Knob	2 Proportional Coils	50-2500mA (PWM Frequency 50-300 Hz)	10-30VDC	PC Programmable		$ 2666.00

Options - Description	Suit	List Price
Custom Logo and Function Names Laser Engraved	Add To List	$ 150.00
Panel Mount	Add To List	$ 100.00



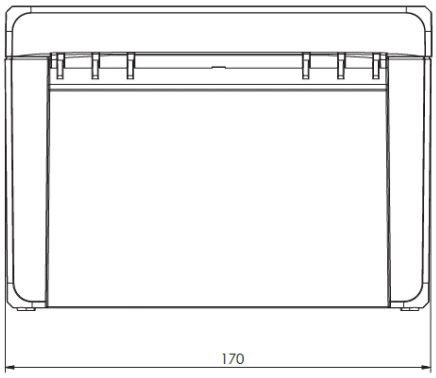


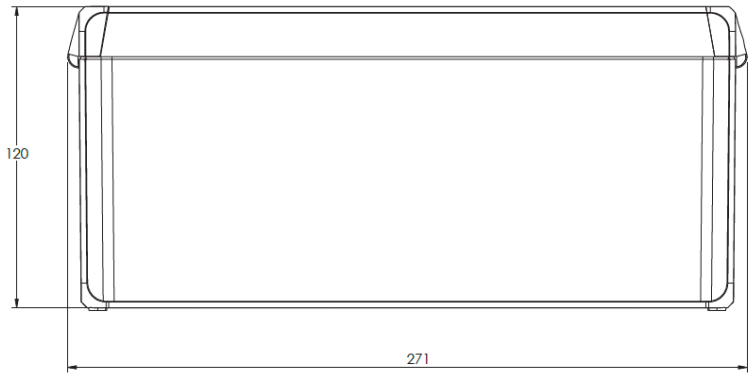
Control Boxes

From Three to Five PWM Drivers DIN Rail Mounted

VPUDM Series - Pulse Width Modulation (PWM) Current Output - LED Power Switch and E-Stop - Cable 300mm with Deutsch Connector - Polycarbonate with Crystal Clear Lid Enclosure IP67

Stock No.	Model Code	Coils	Output PWM	Input Power Supply Range	Calibration/ Adjustment	VPUDM Series	List Price
VPUDM3001	3XPVPUMA	6 Proportional Coils	2500 mA Max (PWM Frequency 50-330 Hz)	10-30VDC 0-10V, -5/0/+5V, 1/4 1/2 3/4 V Supply Selectable by Jumper	Trimmer Adjustment		$ 2199.00
VPUDM4001	4XPVPUMA	8 Proportional Coils	2500 mA Max (PWM Frequency 50-330 Hz)	10-30VDC 0-10V, -5/0/+5V, 1/4 1/2 3/4 V Supply Selectable by Jumper	Trimmer Adjustment		$ 2782.00
VPUDM5001	5XPVPUMA	10 Proportional Coils	2500 mA Max (PWM Frequency 50-330 Hz)	10-30VDC 0-10V, -5/0/+5V, 1/4 1/2 3/4 V Supply Selectable by Jumper	Trimmer Adjustment		$ 3365.00





Wiring Loom

RCL Series

Stock No.	Description	Function	Cable Length	Suit	List Price
RCL02C1505A10	Male 4PIN Deutsch to Hirschman 3PIN	2 Channel	2000mm	REM2B RMR02	$ 100.00
RCL02C1505B10	Male 4PIN Deutsch to Mini Hirschman 3PIN				$ 100.00
RCL02C1505C10	Male 4PIN Deutsch to Hirschman 4PIN				$ 100.00
RCL02C1505E10	Male 4PIN Deutsch to Jet Connector Junior Timer				$ 100.00
RCL04C1505A10	Male 6PIN Deutsch to Hirschman 3PIN	4 Channel	2000mm	REM4B RCR04 RMR04	$ 150.00
RCL04C1505B10	Male 6PIN Deutsch to Mini Hirschman 3PIN				$ 150.00
RCL04C1505C10	Male 6PIN Deutsch to Hirschman 4PIN				$ 150.00
RCL04C1505E10	Male 6PIN Deutsch to Jet Connector Junior Timer				$ 150.00
RCL06C1505A10	Male 10PIN Deutsch to Hirschman 3PIN	6 Channel	2000mm	RCR06/08 RMR06/08	$ 200.00
RCL06C1505B10	Male 10PIN Deutsch to Mini Hirschman 3PIN				$ 200.00
RCL06C1505C10	Male 10PIN Deutsch to Hirschman 4PIN				$ 200.00
RCL06C1505E10	Male 10PIN Deutsch to Jet Connector Junior Timer				$ 200.00
RCL08C1505A10	Male 10PIN Deutsch to Hirschman 3PIN	8 Channel			$ 200.00
RCL08C1505B10	Male 10PIN Deutsch to Mini Hirschman 3PIN				$ 200.00
RCL08C1505C10	Male 10PIN Deutsch to Hirschman 4PIN				$ 200.00
RCL08C1505E10	Male 10PIN Deutsch to Jet Connector Junior Timer				$ 200.00
RCL12A1505A10	MULTI PIN to Hirschman 3PIN	12 Channel	2000mm	RCR12	$ 600.00
RCL12A1505B10	MULTI PIN to Mini Hirschman 3PIN				$ 600.00
RCL12A1505C10	MULTI PIN to Hirschman 4PIN				$ 600.00
RCL12A1505E10	MULTI PIN to Jet Connector Junior Timer				$ 600.00
RCL16A1505A10	MULTI PIN to Hirschman 3PIN	16 Channel	2000mm	RCR16	$ 600.00
RCL16A1505B10	MULTI PIN to Mini Hirschman 3PIN				$ 600.00
RCL16A1505C10	MULTI PIN to Hirschman 4PIN				$ 600.00
RCL16A1505E10	MULTI PIN to Jet Connector Junior Timer				$ 600.00

CRL Series

Stock No.	Description	Function	Cable Length	Suit	List Price
CRL12DM4JNR002	Male 12PIN Deutsch to 4 AMP JNR	4 Coils	1000mm	CRCA4###	$ 288.00
CRL12DM4JNR005	Male 12PIN Deutsch to 4 AMP JNR + Hirschman 3PIN	4 Coils + Solenoid Dump Valve	1000mm		$ 322.00
CRL12DM4JNR003	Male 12PIN Deutsch to 4 AMP JNR + Deustch 2PIN	4 Coils + Aux	1000mm		$ 322.00
CRL12DM12DF1500	12PIN Deutsch Extension Lead		1500mm		$ 150.00
CRL12DM12DF2000	12PIN Deutsch Extension Lead		2000mm		$ 173.00

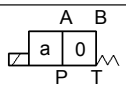
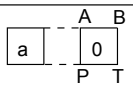
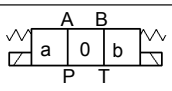
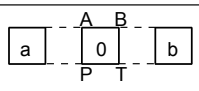
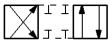
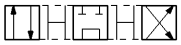
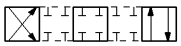
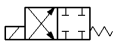
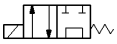
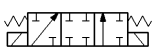
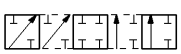
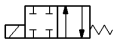
Section 2

Solenoid Directional Control Valves

MAKE	MODEL	PAGE
LC	LC Cetop Valves Spool Types	2.02
LC	LC04Z Solenoid Valves	2.03
LC	LC1 Solenoid Valves	2.04
LC	LC1 Solenoid Valves	2.05
LC	L5181 Solenoid Valves	2.06
Eurofluid	Cetop 3 Base Plates	2.07
Eurofluid	Cetop 3 Base Plates	2.08
Eurofluid	Cetop 3 Manifolds	2.09
HMA	Cetop 3 Manifolds	2.10
Eurofluid	Cetop 3 Manifolds	2.11
LC	LC2 Solenoid Valves	2.12
LC	LC2 Solenoid Valves	2.13
Eurofluid	Cetop 5 Base Plates	2.14
Eurofluid	Cetop 5 Base Plates	2.15
Eurofluid	Cetop 5 Base Plates	2.16
Eurofluid	Cetop 5 Base Plates	2.17
HMA	Cetop 5 Manifolds	2.18
Eurofluid	Cetop 5 Manifolds	2.19
LC	Modular (Sandwich) Valves	2.20
LC	LC35Z Solenoid Valves	2.21
Continential	VSD08M Solenoid Valves	2.22
LC	VS Selector Valves	2.23
Hydrocontrol	HCS Selector Valves	2.24
LC	VS Selector Valves	2.24
Hydrocontrol	HC SVM Selector Valves	2.25
LC	L765 Selector Valves	2.26
Made In Italy	ELFB Selector Valves	2.26
LC	DIN Electrical Connectors	2.27
LC	Standard Bolt Kits	2.27
LC	Cobra Lever Controls	2.28

MAKE	MODEL	PAGE

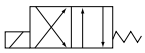
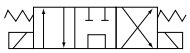
LC Cetop Valves Spool Types

New Code	Old Code	Circuit	Oil direction during shift	New Code	Old Code	Circuit	Oil direction during shift
							
Y301	A11C			A201	A2		
X301	A11A			B201	B2		
N301	N11C			C201	C2		
B301	B11C			D201	D2		
C301	C11A			E201	E2		
A301	A11S			E2R1	ER		
E301	E11C			F201	F2		
A361	A14S			G209	H2		
B361	B14C			G201	G2		
C361	C14A			K201	2K		
D301	D11C			K209	R2		
D361	D14C			U201	U2		
E361	E14C						
U369	U11C						
T301	T11C						
T361	T13C						
Y401	A12C			M201	M2C		
X401	A12A			L201	M2A		
N401	N12C			N201	N2		
B471	B12C						
B401	B13C						
A401	A12S						
E401	E12C						
A471	A13S						
C471	C12A						
C401	C13A						
D471	D12C						
D401	D13C						
E471	E13C						
T409	T12C						
T479	T14C						
				M501	M2C/D		
				L501	M2A/D		
				N501	N2/D		

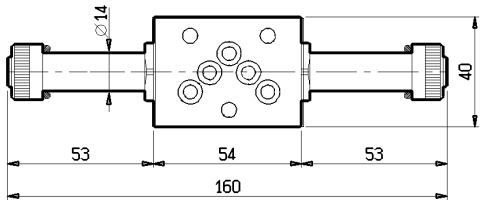
LC04Z Solenoid Valves

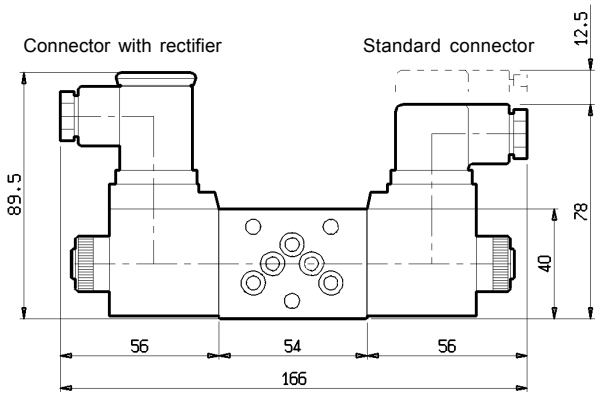
Cetop 2 Solenoid Operated Directional Control Valves

Max. Flow 25 l/min - Max. Operating Pressure 310 bar
Max. Tank Line Pressure: Dynamic = 180 bar - Static = 210 bar

Stock No.	Symbol	Description	List Price
LC04ZA11A**		Single Solenoid - Spring Offset - 2 Position - 4 Way P to A, B to T in Neutral	$ 260.00
LC04ZA2**		Double Solenoid, Spring Centred - 3 Position - 4 Way P to T, A & B Blocked in Neutral	$ 334.00
LC04ZB2**		Double Solenoid, Spring Centred P, T, A & B Blocked in Neutral	$ 334.00
** Substitute for voltage required (eg 12VDC). Note: All valves include standard bolt kit and DIN connectors for each coil.			

Standard Voltages
12V DC
24V DC
207V DC
110V-50Hz AC
240V-50Hz AC





Cetop 2 Subplates

Stock No.	Ports	Description	List Price
PA0202009	1/4" BSPP	A-B-P-T Rear Ports	$ 80.00
PA02024092V	1/4" BSPP	A-B Lateral Ports, P-T Rear Ports c/w Relief Valve	$ 164.00

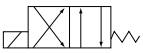
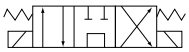
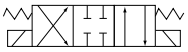
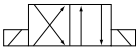
Modular (Sandwich) Valve

Stock No.	Symbol	Description	Cetop *	Flow	Pressure	List Price
LC04VRAB		Pilot Check A & B	CETOP 2	20 LPM	310 BAR	$ 267.00

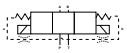
LC1 Solenoid Valves

Cetop 3 Solenoid Operated Directional Control Valves

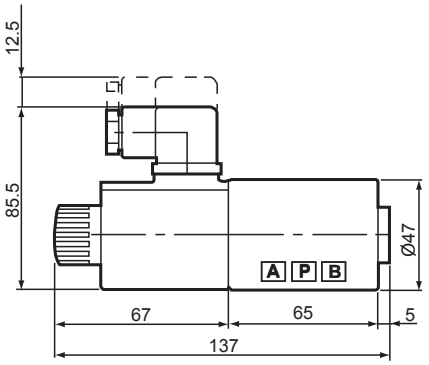
AC - Max. Flow 60 l/min - Max. Operating Pressure 250 bar
Max. Tank Line Pressure: Dynamic = 160 bar - Static = 180 bar
DC - Max. Flow 70 l/min - Max. Operating Pressure 310 bar
Max. Tank Line Pressure: Dynamic = 250 bar - Static = 310 bar

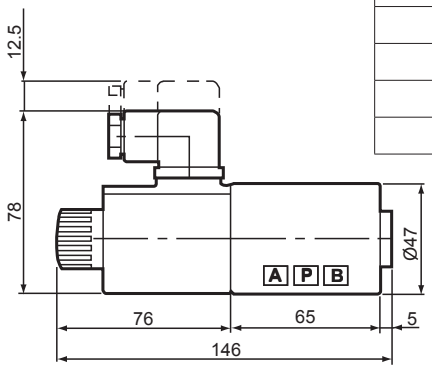
Stock No.	Symbol	Description	List Price
LC1A11A**		Single Solenoid - Spring Offset - 2 Position - 4 Way P to A, B to T in Neutral	$ 260.00
LC1A2**		Double Solenoid, Spring Centred - 3 Position - 4 Way P to T, A & B Blocked in Neutral	$ 350.00
LC1B2**		Double Solenoid, Spring Centred P, T, A & B Blocked in Neutral	$ 350.00
LC1C2**		Double Solenoid, Spring Centred P, A & B Open to T in Neutral	$ 310.00
LC1E2**		Double Solenoid, Spring Centred P Blocked, A & B open to T in Neutral	$ 310.00
LC1M2A**		Double Solenoid, No Springs, Detented P to A, B to T in Neutral	$ 351.00
** Substitute for voltage required (eg 12VDC). Note: All valves include standard bolt kit and DIN connectors for each coil.			

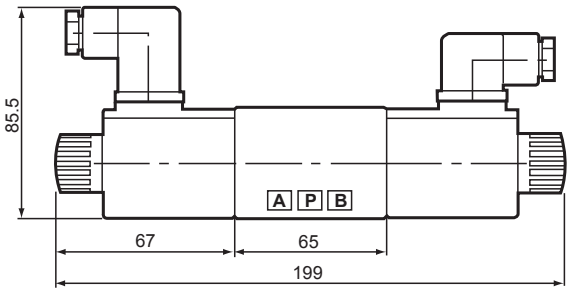
Soft Switching Option

Stock No.	Symbol	Description	List Price
LC1XS****		Double Solenoid Valve c/w 'XS' Soft Switching Max. Flow 25 l/min (eg. LC1XS-A2-12VDC)	$ 780.00
**** Substitute for spool type and voltage required. Note: All valves include standard bolt kit and DIN connectors for each coil.			

Standard Voltages
12V DC
24V DC
207V DC
110V-50Hz AC
240V-50Hz AC

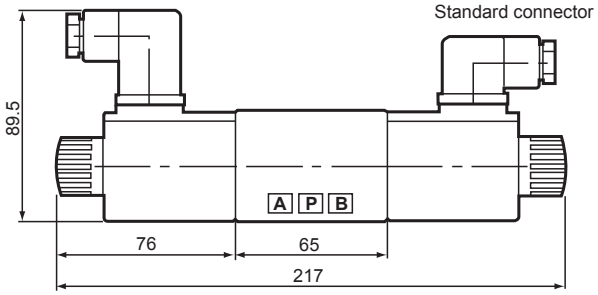






Connector with rectifier

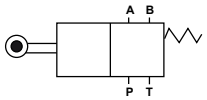
Standard connector

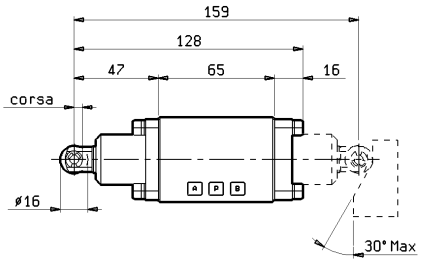


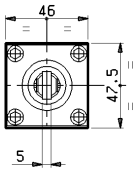
LC1 Solenoid Valves

Cetop 3 Directional Control Valves

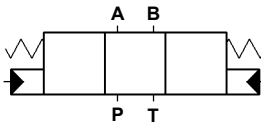
Cam Operated - Max. flow 70 l/min, max. pressure 310 bar, max. tank line back pressure 70 bar)

Stock No.	Symbol	Description	List Price
LC1**1C		Spring Offset, single cam operated (eg. LC1A11A1C)	$ 409.00
LC1**2C		No spring, double cam operated (eg. LC1M2A2C)	$ 527.00
** Substitute for spool type. Note: All valves include standard bolt kit.			

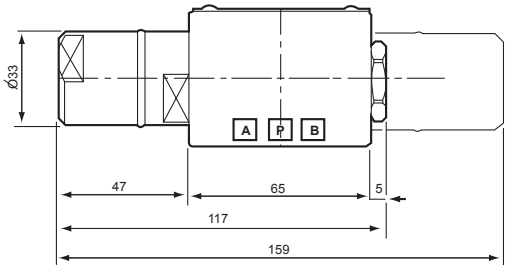


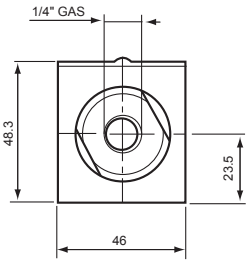


Air/Oil Pilot Operated - (Max. flow 70 l/min, max. pressure 310 bar, max. tank line back press. 200 bar)

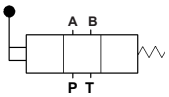
Stock No.	Symbol	Description	List Price
LC1**1P		Spring offset, single pilot operated (eg. LC1A11A1P)	$ 395.00
LC1**2P		Spring centred, double pilot operated (eg. LC1A22P)	$ 599.00
LC1**2PD		Spring centred with detents, double pilot operated (eg. LC1A22PD)	$ 703.00
** Substitute for spool type. Note: All valves include standard bolt kit.			

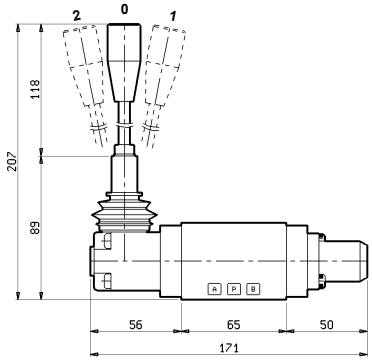
Pilot Pressure
4 to 200 bar

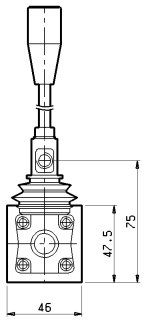




Lever Operated - Max. flow 70 l/min, max. pressure 310 bar, max. tank line back pressure 100 bar)

Stock No.	Symbol	Description	List Price
LC1L**M		Spring centred, lever operated (eg. LC1LA23M)	$ 435.00
LC1L**F		Detented, lever operated (eg. LC1LA11A2F)	$ 506.00
** Substitute for spool type. Note: All valves include standard bolt kit.			

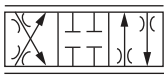
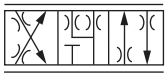




L5181 Solenoid Valves

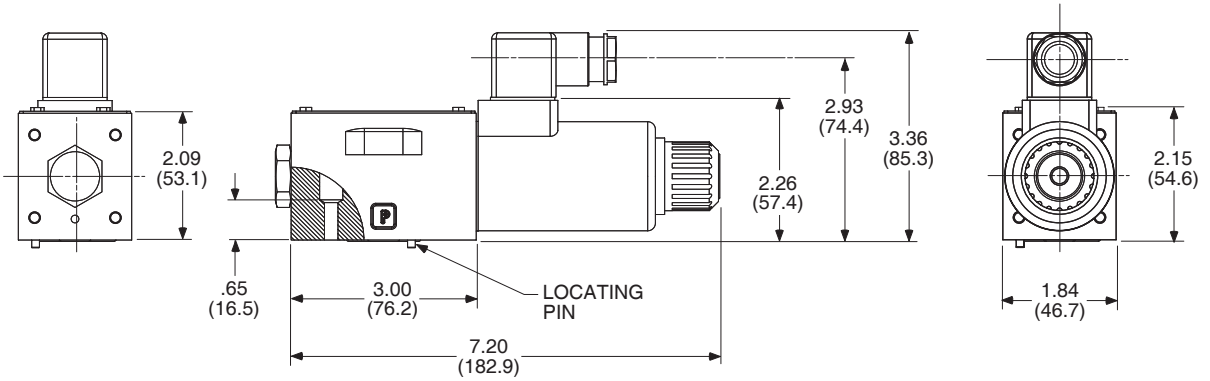
CETOP 3 Proportional Directional Control Valves

Max. Flow 26 lpm, Max. Operating Pressure 345 Bar
Max. Tank Line Pressure: Dynamic = 207 Bar, Static = 207 Bar

Stock No.	Symbol	Spool Flow Rate Code	Nominal Flow gpm (lpm)	Description	List Price
L5181B2**		S2 S4 S6	3 (10) 6 (20) 9 (30)	Double Solenoid - Spring Centred - 3 Position 4 Way P,T,A & B blocked in neutral, meter in & out	$ 800.00
L5181E2**		S2 S4 S6	3 (10) 6 (20) 9 (30)	Double Solenoid - Spring Centred - 3 Position 4 Way P blocked, A & B open to T, meter in & out	$ 800.00
** Substitute for Spool Flow Rate Code and voltage. Standard voltages: 12V DC, 24V DC.					

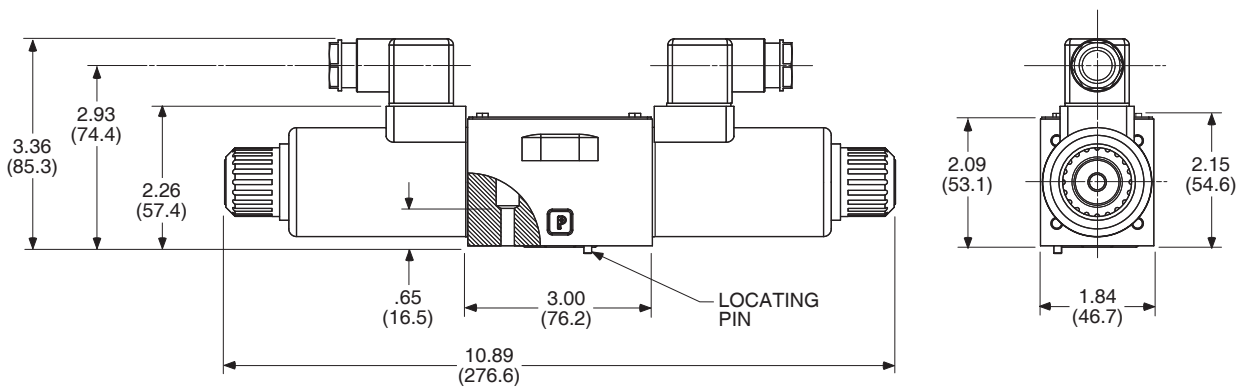
Dimensions shown in: Inches
(millimeters)

Single Solenoid



NOTE: Valve mounting bolts torque: 4 - 5 lbs.-ft. (5.4 Nm - 6.8 Nm).

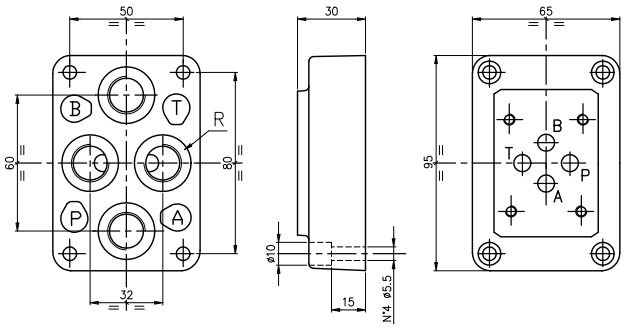
Double Solenoid



Cetop 3 Base Plates

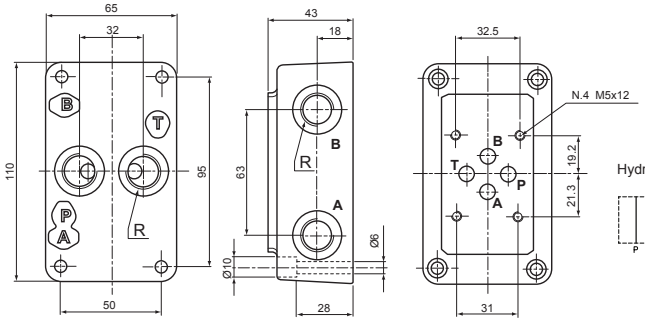
Cetop 3 Subplates

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM120	A-B-P-T Rear Ports	310 BAR	3/8" BSPP	3/8" BSPP	-	$ 110.00

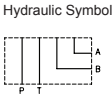


Hydraulic Symbol

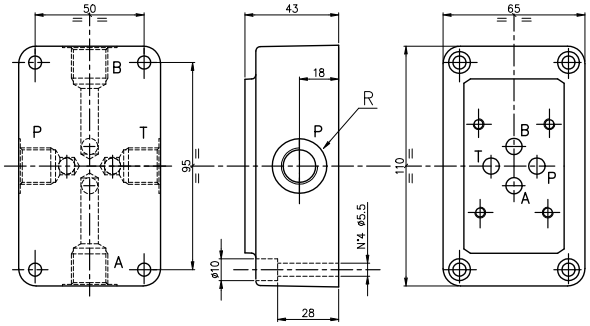
Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM121	A-B Lateral, P-T Rear	310 BAR	3/8" BSPP	3/8" BSPP	-	$ 156.00



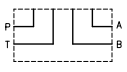
Hydraulic Symbol



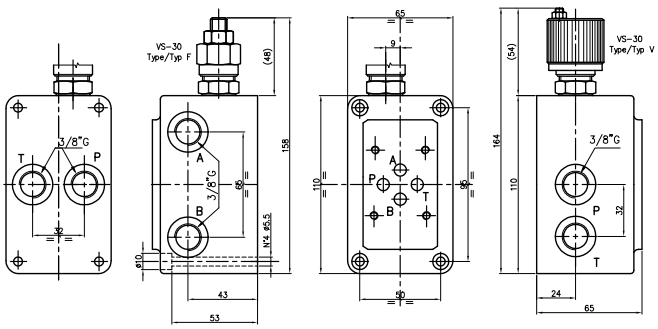
Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM121LAT	A-B-P-T Lateral	310 BAR	3/8" BSPP	3/8" BSPP	-	$ 164.00



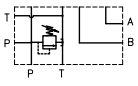
Hydraulic Symbol



Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM1232V	A-B Lateral, P-T Rear c/w R.V.	310 BAR	3/8" BSPP	3/8" BSPP	-	$ 312.00



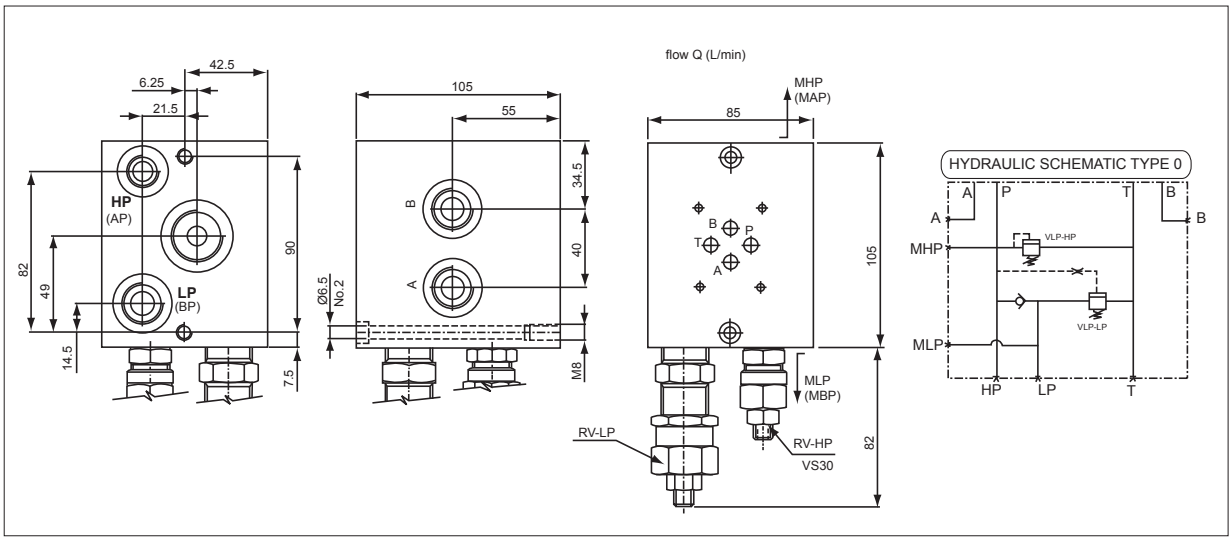
Hydraulic Symbol



Cetop 3 Base Plates

Cetop 3 Hi/Low Subplate

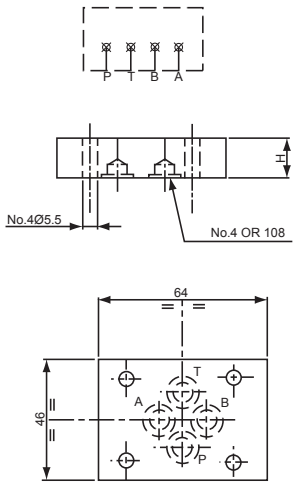
Stock No.	Description	Pressure	AP & A & B Ports	BP Ports	T Port	List Price
ET2032F2F	Hi/Low Subplate	300 BAR	1/2" BSPP	3/8" BSPP	3/4" BSPP	$ 679.00



Cetop 3 Packing Plates

Stock No.	Description	List Price
EB113	Cetop 3 Blanking Plate	$ 63.00
EB30314	Cetop 3 Tapping Block A & B	$ 67.00
EB33314	Cetop 3 Tapping Block P & T	$ 67.00

Hydraulic Symbol

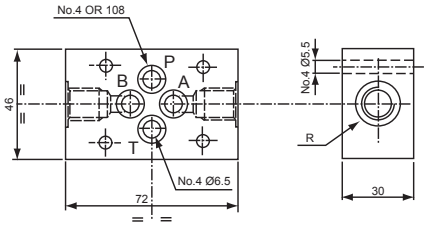


Ordering Code: EB1 * 3

- End Plate = B1
- * : 0 Height = 10; 1 Height = 21
- 3 = CETOP 3

Example:

Ports on A and B



Type	Version
0	A & B
3	Side B / P & T / Side A
6	P & P
7	T & T

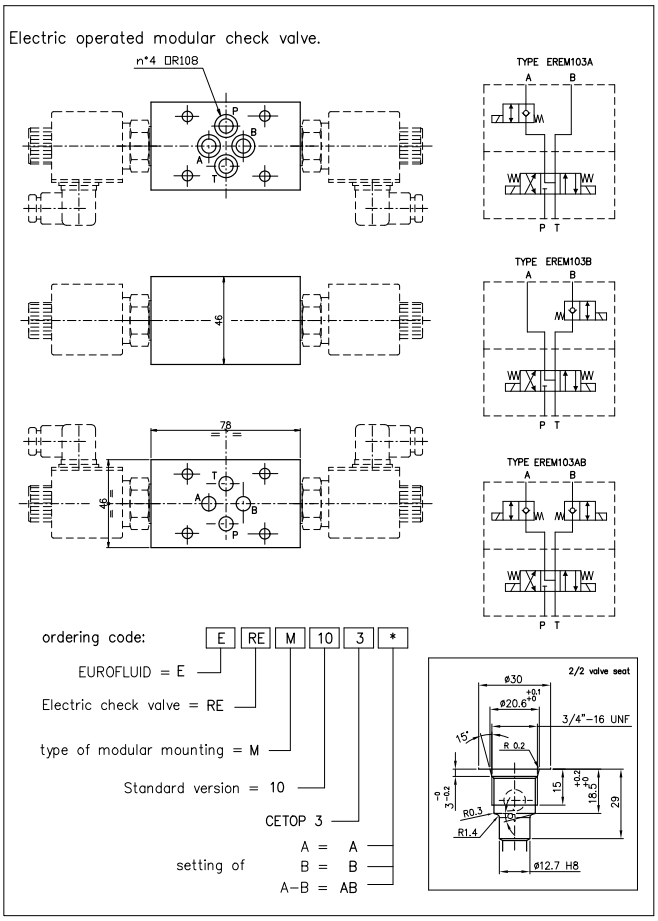
Ordering Code: EB3 * 3 *

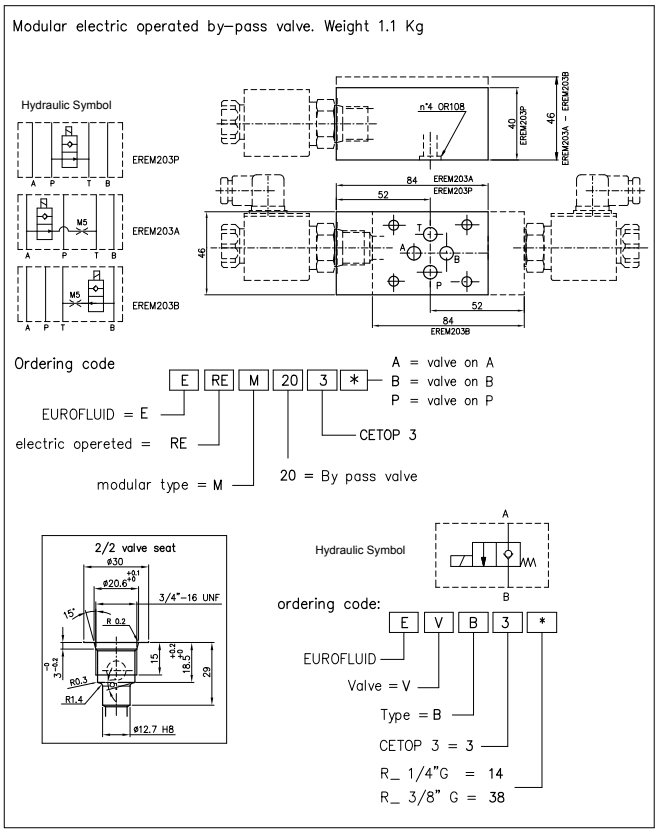
- Sub plate for packing = B
- Type 0 - 3 - 6 - 7 (See the table)
- 3 = CETOP 3
- * : **14** = R 1/4"G; **38** = R 3/8"G

Cetop 3 Manifolds

Cetop 3 Packing Plates

Stock No.	Cavity	Description	List Price
EREM103AB	3/4 - 16 2 Way	Cetop 3 on A & B	$ 122.00
EREM203A	3/4 - 16 2 Way	Cetop 3 on A to T	$ 122.00
EREM203B	3/4 - 16 2 Way	Cetop 3 on B to T	$ 122.00
EREM203P	3/4 - 16 2 Way	Cetop 3 on P to T	$ 122.00





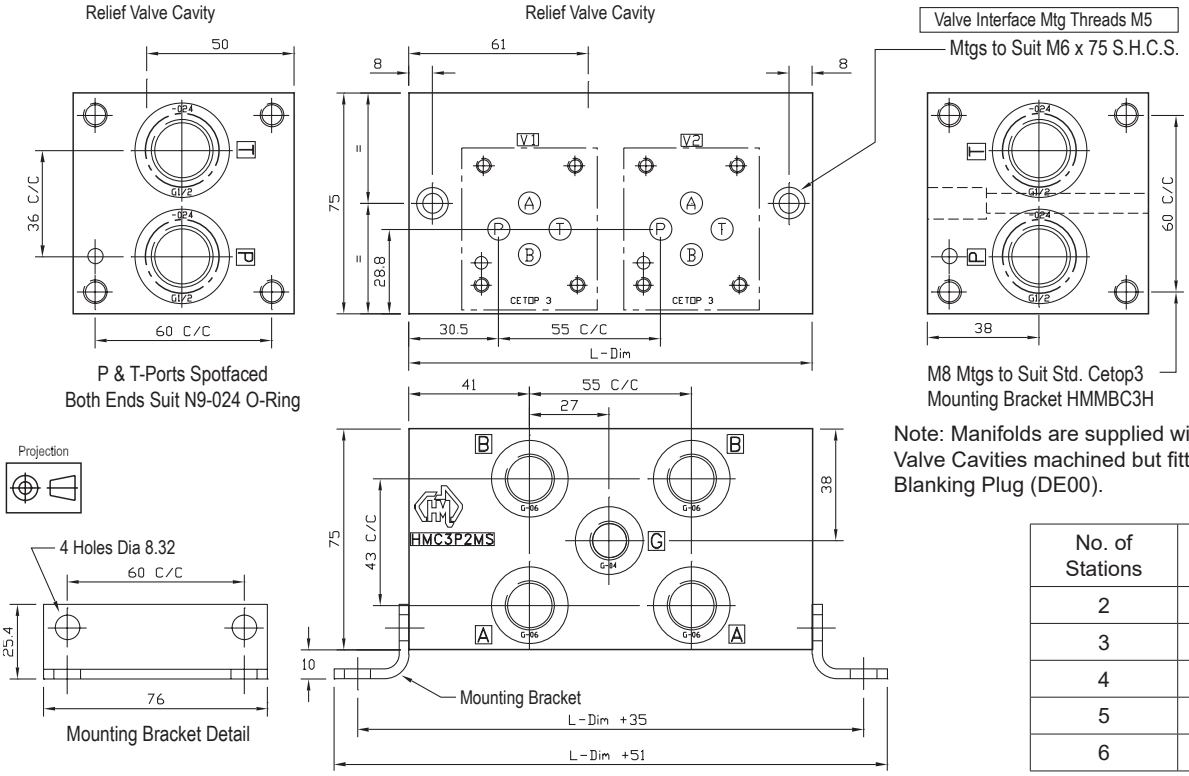
NOTE: Body only, does not include cartridge or coil.
See power series for cartridge.

Cetop 3 Manifolds

Cetop 3 Parallel & Series Alloy Manifolds

Parallel Manifold with Relief Cavity

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
HMC3P2MC	2 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 300.00
HMC3P3MC	3 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 372.00
HMC3P4MC	4 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 462.00
HMC3P5MC	5 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 530.00
HMC3P6MC	6 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 610.00
DERVA003000	Optional Relief Cartridge	105 - 210 bar adjustment range				$ 81.00
HBPC3M	Cetop 3 Blanking Plate Kit (Includes bolts and o'rings.)					$ 63.00

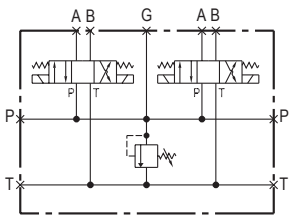


Note: Manifolds are supplied with Relief Valve Cavities machined but fitted with Blanking Plug (DE00).

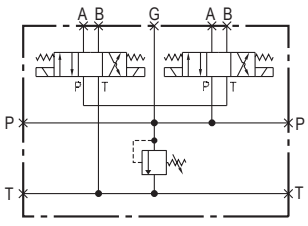
No. of Stations	'L' Dim. (mm)
2	137
3	192
4	247
5	302
6	357

Series Manifold with Relief Cavity

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
HMC3S2MC	2 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 381.00
HMC3S3MC	3 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 476.00
HMC3S4MC	4 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 565.00
HMC3S5MC	5 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 653.00
HMC3S6MC	6 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 786.00
DERVA003000	Optional Relief Cartridge	105 - 210 bar adjustment range				$ 81.00



Parallel Circuit (Shown with Relief Option)



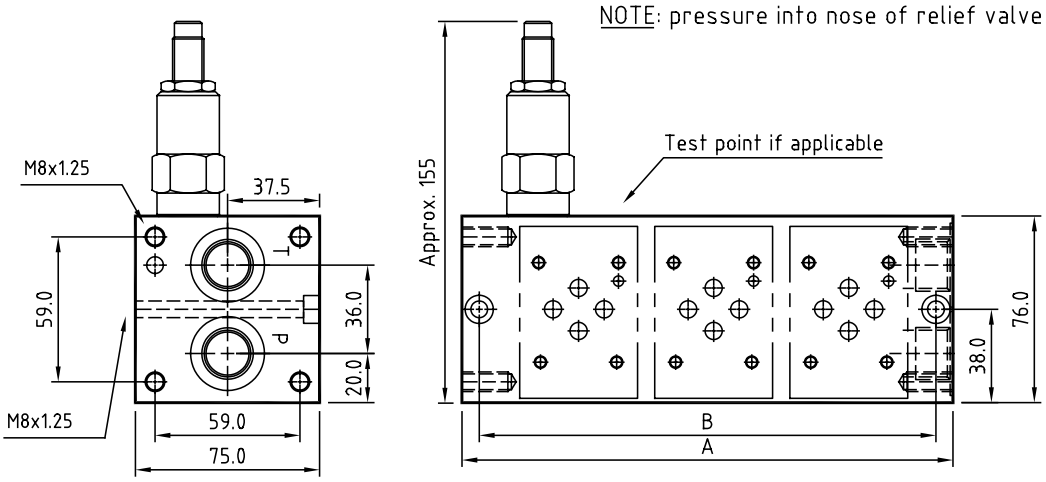
Series Circuit (Shown with Relief Option)

Cetop 3 Manifolds

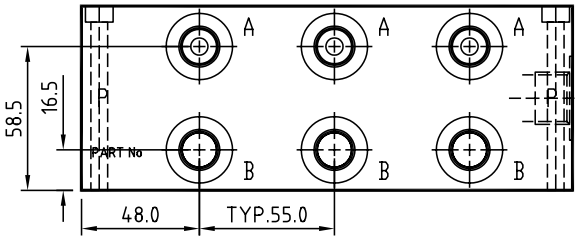
Cetop 3 Parallel & Series Alloy Manifolds

Parallel Manifold with Relief Cavity

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
M3PA2AC	2 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 300.00
M3PA3AC	3 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 372.00
M3PA4AC	4 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 462.00
M3PA5AC	5 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 530.00
M3PA6AC	6 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 610.00
DERVA003000	Optional Relief Cartridge	105 - 210 bar adjustment range				$ 81.00
EB113	Cetop 3 Blanking Plate Kit (Includes bolts and o'rings.)					$ 63.00



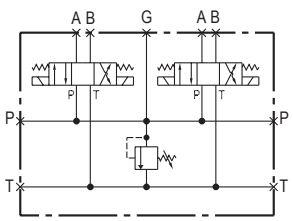
Note: Manifolds are supplied with Relief Valve Cavities machined but fitted with Blanking Plug (DE00).



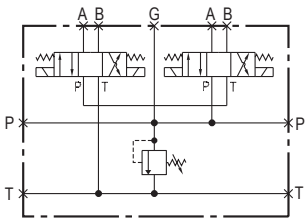
No. of Stations	Dim. A (mm)	Dim. B (mm)
2	145	131
3	200	186
4	255	241
5	310	296
6	365	351

Series Manifold with Relief Cavity

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
M3SA2AC	2 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 381.00
M3SA3AC	3 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 476.00
M3SA4AC	4 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 565.00
M3SA5AC	5 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 653.00
M3SA6AC	6 Station c/w Relief Cavity	210 BAR	3/8" BSPP	1/2" BSPP	1/4" BSPP	$ 786.00
DERVA003000	Optional Relief Cartridge	105 - 210 bar adjustment range				$ 81.00



Parallel Circuit (Shown with Relief Option)

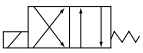
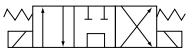
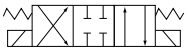


Series Circuit (Shown with Relief Option)

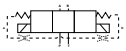
LC2 Solenoid Valves

Cetop 5 Solenoid Operated Directional Control Valves

AC - Max. Flow 100 l/min - Max. Operating Pressure 250 bar
Max. Tank Line Pressure: Dynamic = 140 bar - Static = 210 bar
DC - Max. Flow 120 l/min - Max. Operating Pressure 250 bar
Max. Tank Line Pressure: Dynamic = 140 bar - Static = 210 bar

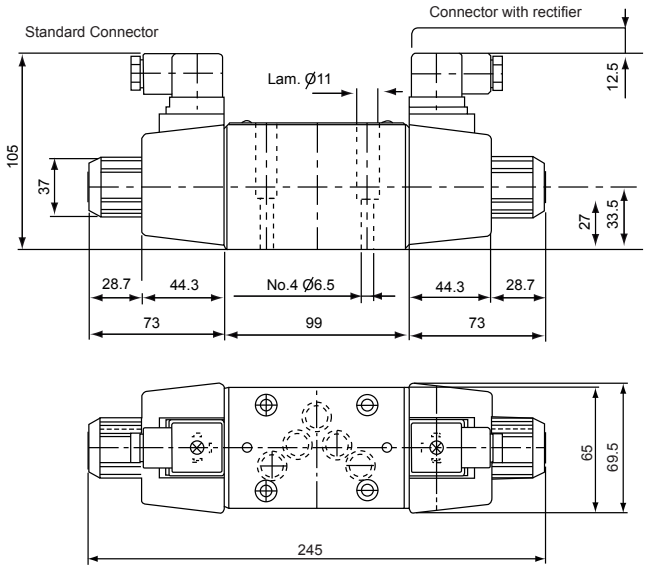
Stock No.	Symbol	Description	List Price
LC2A11A**		Single Solenoid - Spring Offset - 2 Position - 4 Way P to A, B to T in Neutral	$ 460.00
LC2A2**		Double Solenoid, Spring Centred - 3 Position - 4 Way P to T, A & B Blocked in Neutral	$ 610.00
LC2B2**		Double Solenoid, Spring Centred P, T, A & B Blocked in Neutral	$ 600.00
LC2C2**		Double Solenoid, Spring Centred P, A & B Open to T in Neutral	$ 600.00
LC2E2**		Double Solenoid, Spring Centred P Blocked, A & B open to T in Neutral	$ 600.00
LC2M2A**		Double Solenoid, No Springs, Detented P to A, B to T in Neutral	$ 670.00
** Substitute for voltage required (eg 12VDC). Note: All valves include standard bolt kit and DIN connectors for each coil.			

Soft Switching Option

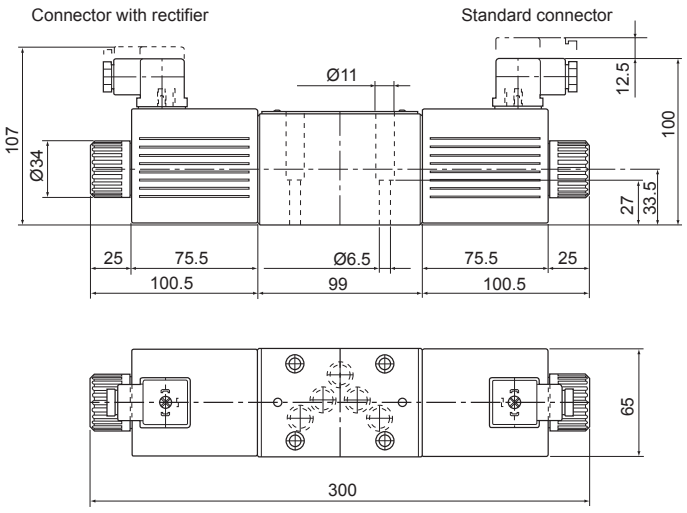
Stock No.	Symbol	Description	List Price
LC2XS****		Double Solenoid Valve c/w 'XS' Soft Switching Max. Flow 80 l/min (eg. LC2XS-A2-12VDC)	$ 930.00
**** Substitute for spool type and voltage required.			

Standard Voltages
12V DC
24V DC
207V DC
110V-50Hz AC
240V-50Hz AC

LC2AC



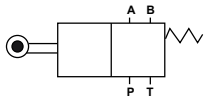
LC2DC

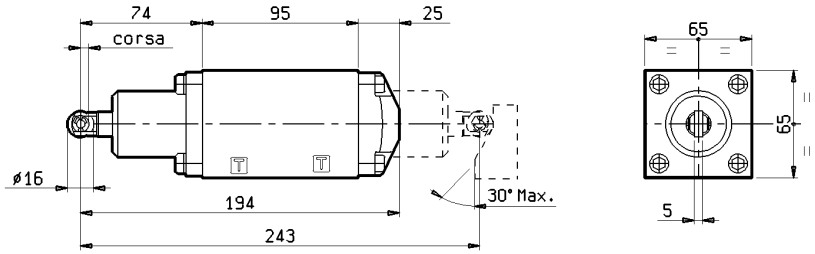


LC2 Solenoid Valves

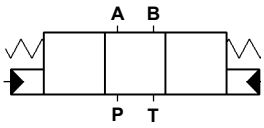
Cetop 5 Directional Control Valves

Cam Operated - Max. flow 120 l/min, max. pressure 300 bar, max. tank line back pressure 70 bar)

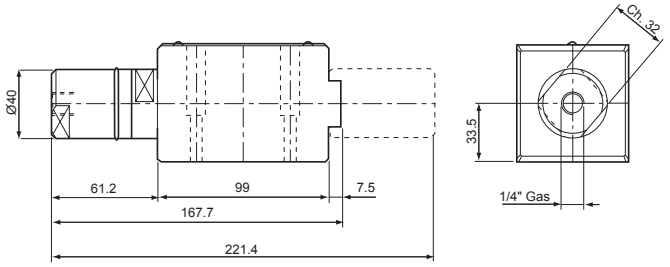
Stock No.	Symbol	Description	List Price
LC2**1C		Spring Offset, single cam operated (eg. LC2A11A1C)	$ 600.00
LC2**2C		No spring, double cam operated (eg. LC2M2A2C)	$ 824.00
** Substitute for spool type. Note: All valves include standard bolt kit.			



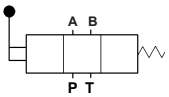
Air/Oil Pilot Operated - (Max. flow 120 l/min, max. pressure 310 bar, max. tank line back press. 200 bar)

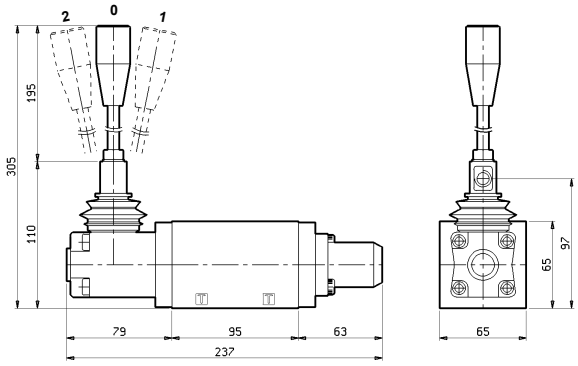
Stock No.	Symbol	Description	List Price
LC2**1P		Spring offset, single pilot operated (eg. LC2A11A1P)	$ 567.00
LC2**2P		Spring centred, double pilot operated (eg. LC2A22P)	$ 804.00
LC2**2PD		Spring centred with detents, double pilot operated (eg. LC2A22PD)	$ 918.00
** Substitute for spool type. Note: All valves include standard bolt kit.			

Pilot Pressure: 4 to 200 bar



Lever Operated - Max. flow 120 l/min, max. pressure 300 bar, max. tank line back pressure 100 bar)

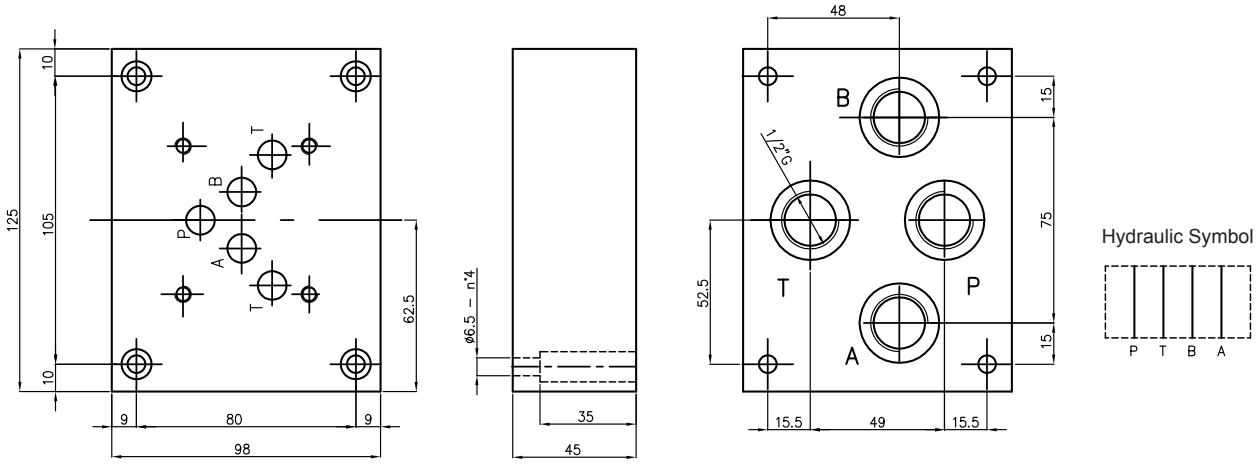
Stock No.	Symbol	Description	List Price
LC2L**M		Spring centred, lever operated (eg. LC2LA23M)	$ 729.00
LC2L**F		Detented, lever operated (eg. LC2LA11A2F)	$ 784.00
** Substitute for spool type. Note: All valves include standard bolt kit.			



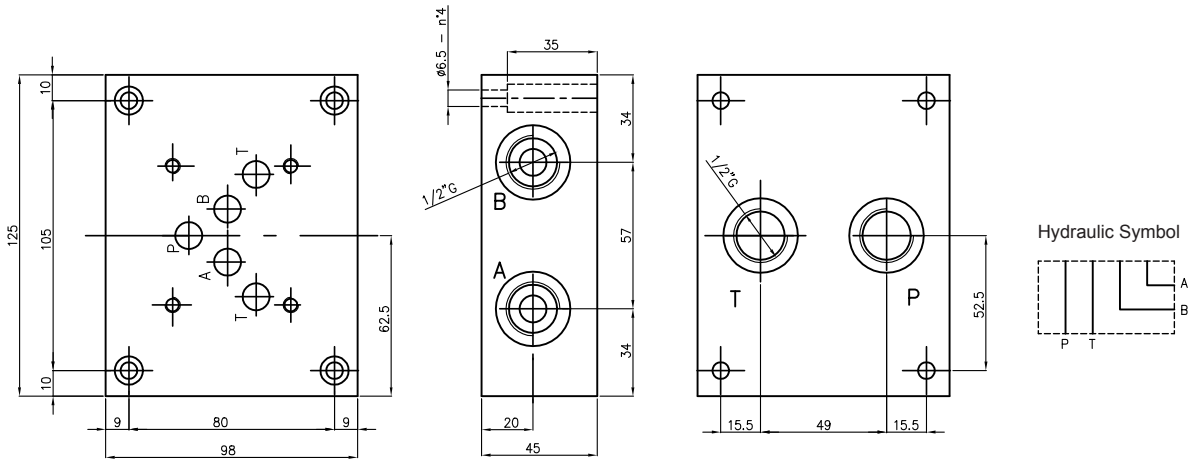
Cetop 5 Base Plates

Cetop 5 Subplates

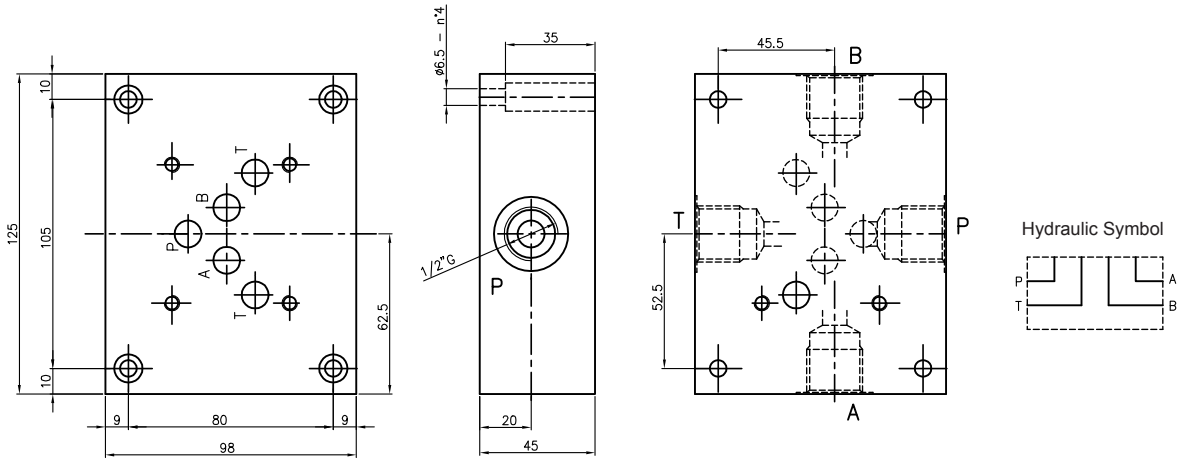
Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM220	A-B-P-T Rear Ports	270 BAR	1/2" BSPP	1/2" BSPP	-	$ 190.00



Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM221	A-B Lateral, P-T Rear	270 BAR	1/2" BSPP	1/2" BSPP	-	$ 197.00



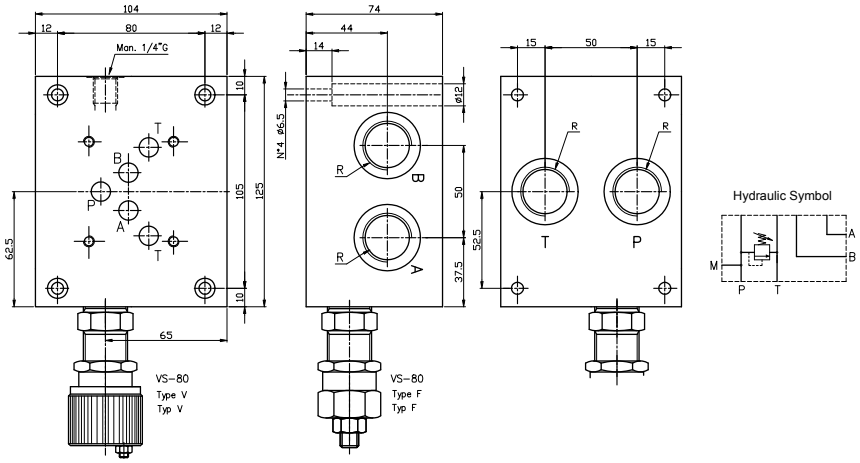
Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM221LAT	A-B-P-T Lateral	270 BAR	1/2" BSPP	1/2" BSPP	-	$ 197.00



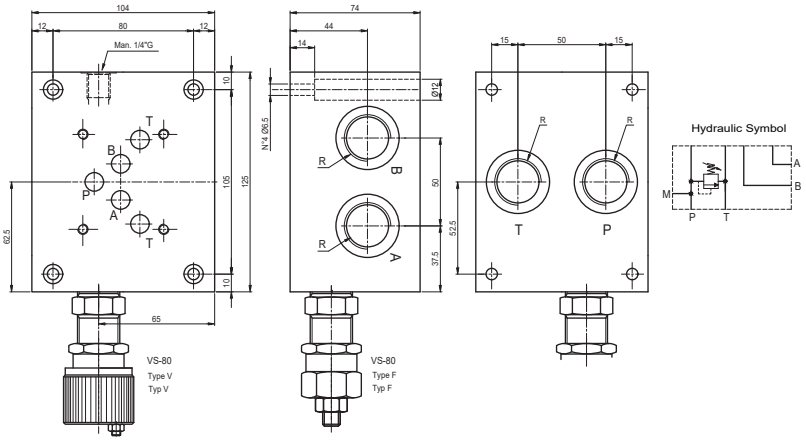
Cetop 5 Base Plates

Cetop 5 Subplates

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM2232V	A-B Lateral, P-T Rear c/w Relief	270 BAR	1/2" BSPP	1/2" BSPP	1/4" BSPP	$ 462.00

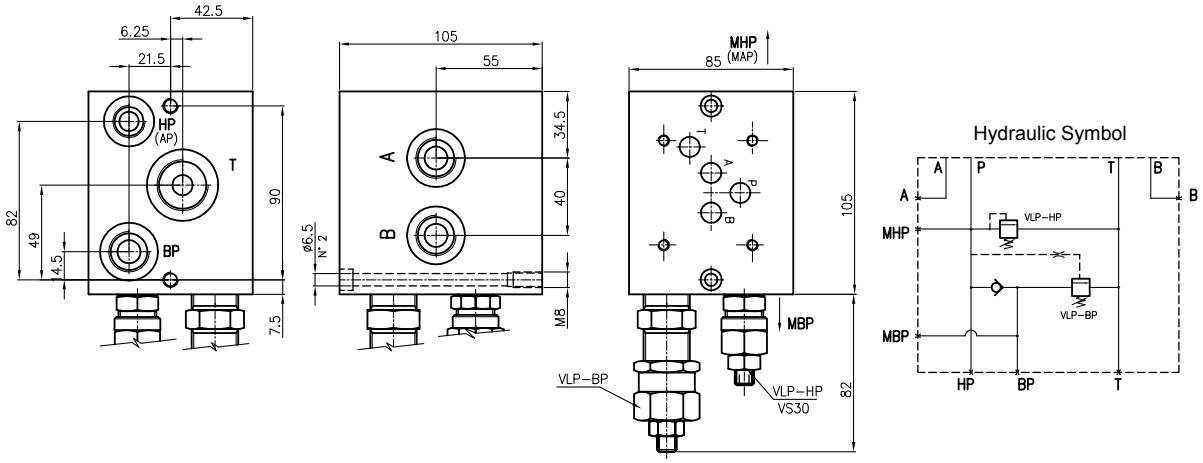


Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
PDM3232V	A-B Lateral, P-T Rear c/w Relief	270 BAR	3/4" BSPP	3/4" BSPP	1/4" BSPP	$ 462.00



Cetop 5 Hi/Low Subplate 50 lpm

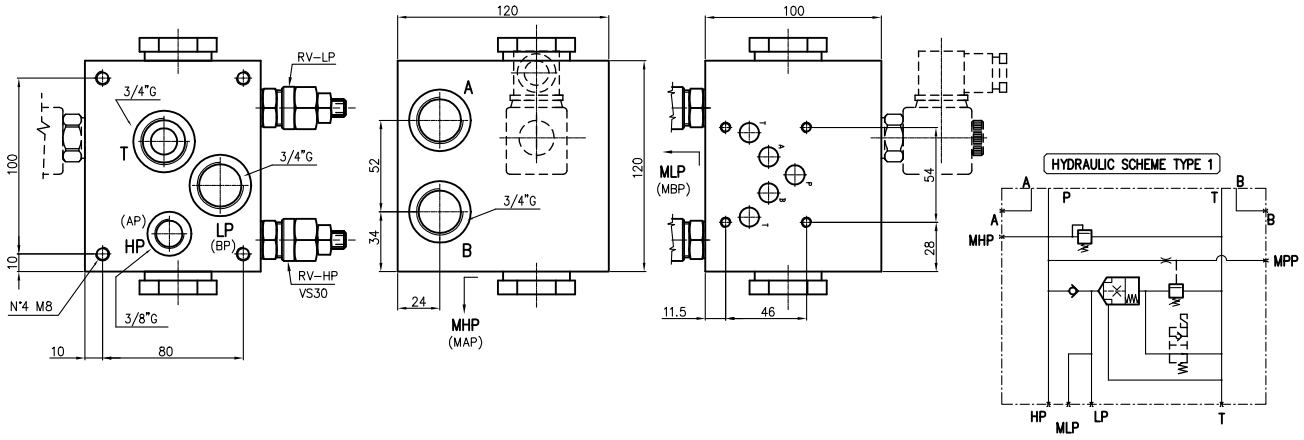
Stock No.	Description	Pressure	AP & A & B Ports	BP Port	T Port	List Price
ET2052F2F	Hi/Low Subplate	270 BAR	1/2" BSPP	1/2" BSPP	3/4" BSPP	$ 710.00



Cetop 5 Base Plates

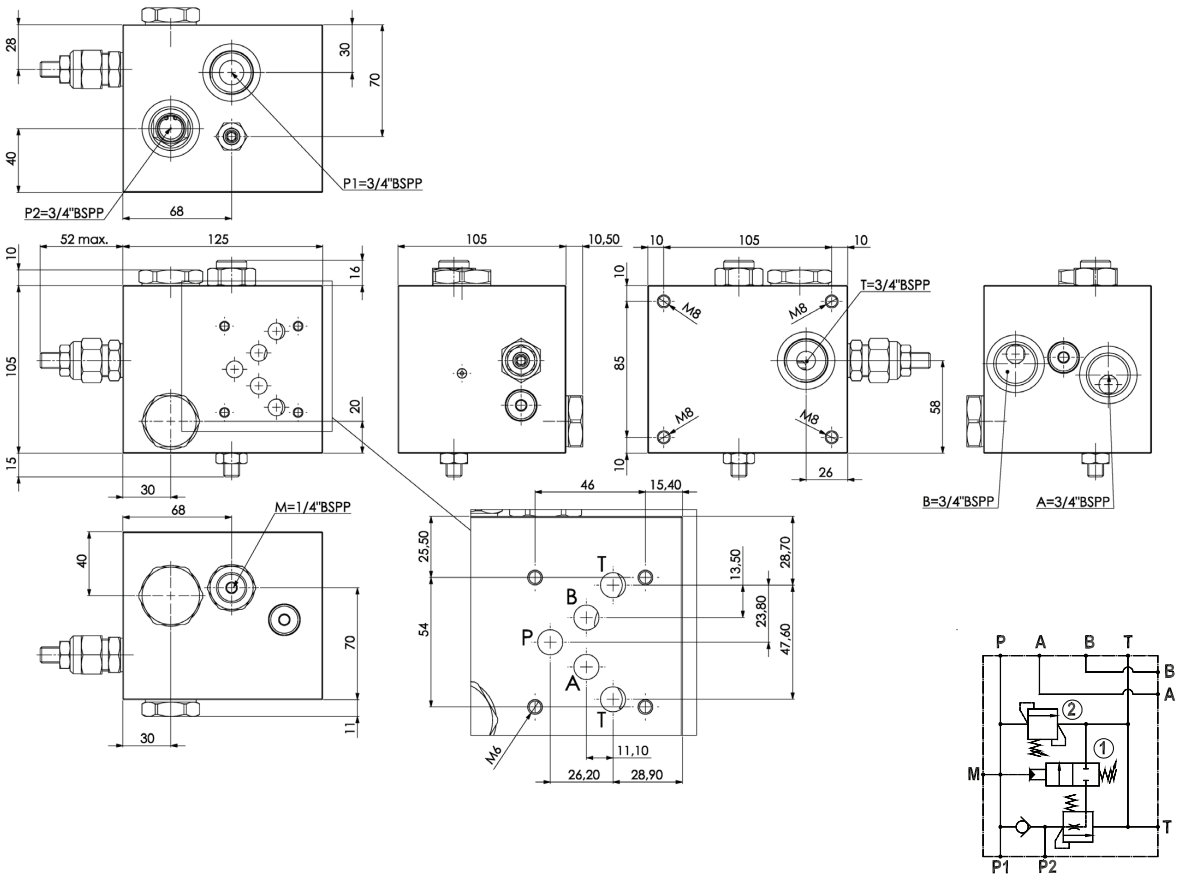
Cetop 5 Hi/Low Subplate 120 lpm

Stock No.	Description	Pressure	AP & A & B Ports	BP Port	T Port	List Price
ET2152F2F	Hi/Low Subplate	270 BAR	3/4" BSPP	3/8" BSPP	3/4" BSPP	$ 1184.00



Two Pump Unloading Valve - Cetop 5

Stock No.	Description	Maximum Flow	Maximum Pressure	Weight	Body	List Price
FPMSPDL10P342020	Unloading Valve	150 LPM	350 BAR	3.8 Kg	Aluminium	$ 717.00

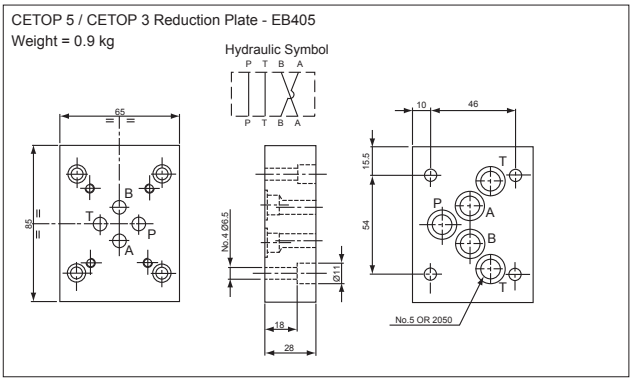


Cetop 5 Base Plates

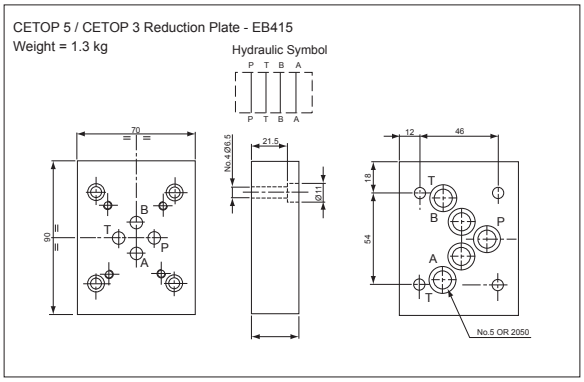
Cetop 5 Packing Plates

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
EB405	Cetop 5-3 A-B B-A	270 BAR	-	-	-	$ 98.00
EB415	Cetop 5-3 A-A B-B	270 BAR	-	-	-	$ 132.00

CETOP 5 / CETOP 3 Reduction Plate - EB405
Weight = 0.9 kg

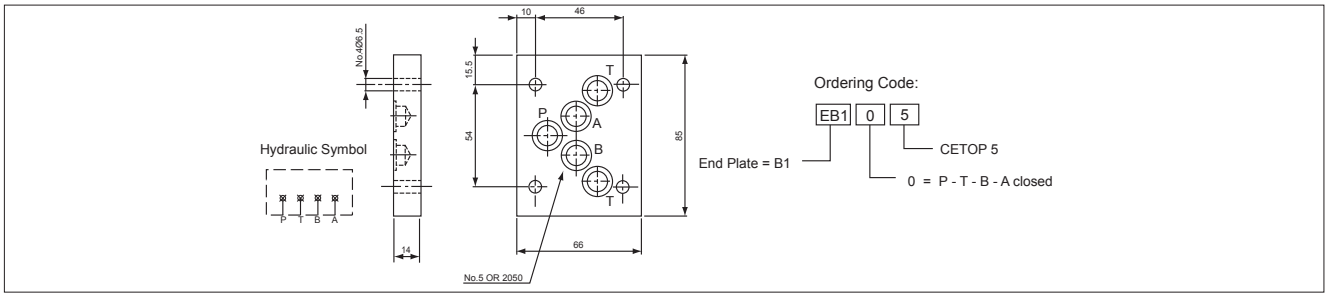


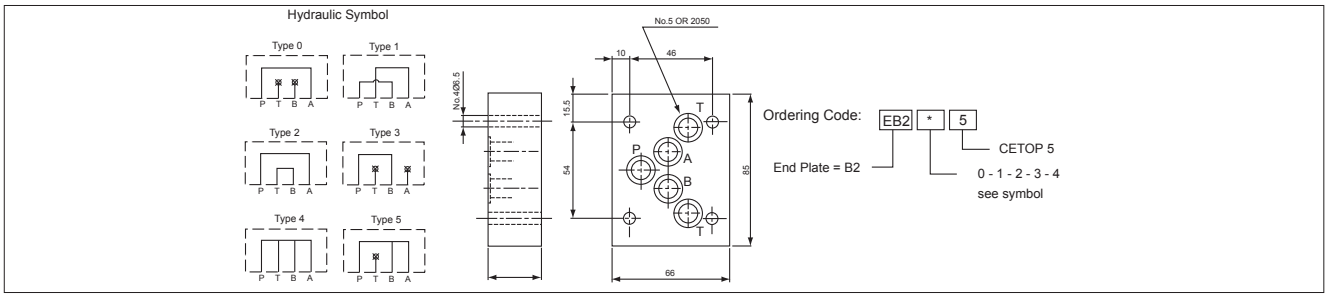
CETOP 5 / CETOP 3 Reduction Plate - EB415
Weight = 1.3 kg

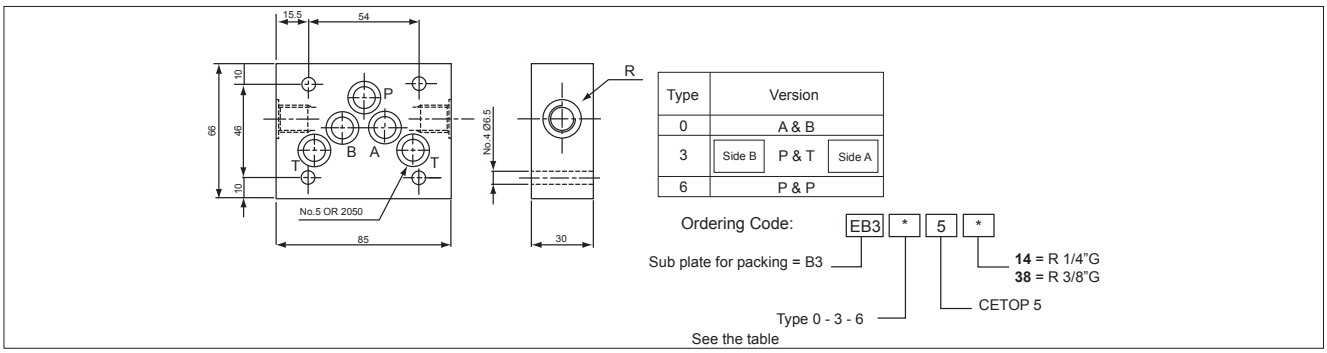


Cetop 5 Packing Plates

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
EB105	Cetop 5 Blanking	270 BAR	-	-	-	$ 69.00
EB30514	Cetop 5 Tapping A & B	270 BAR	1/4” BSPP	-	-	$ 80.00
EB33514	Cetop 5 Tapping P & T	270 BAR	-	1/4” BSPP	-	$ 80.00
EB215	Cetop 5 XOver B-P, A-T	270 BAR	-	-	-	$ 233.00





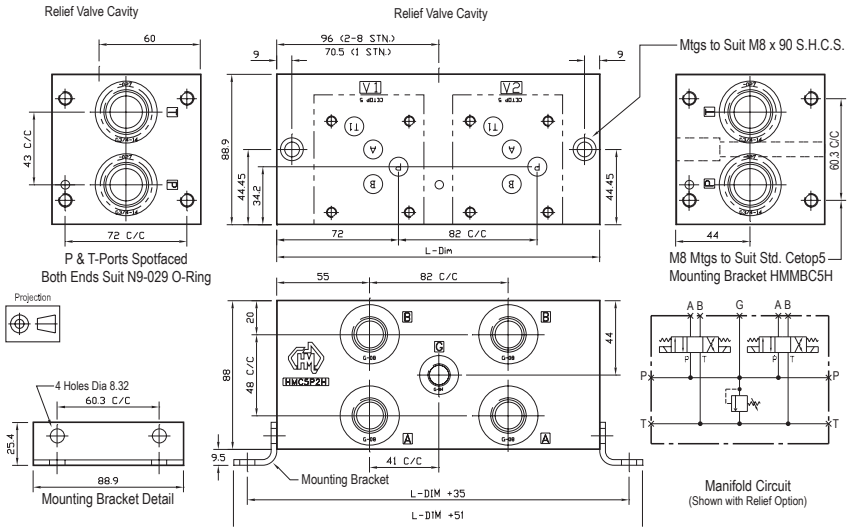


Cetop 5 Manifolds

Cetop 5 Parallel & Series Alloy Manifolds

Parallel Manifold with Relief Cavity

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
HMC5P2MC	2 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 466.00
HMC5P3MC	3 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 609.00
HMC5P4MC	4 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 762.00
HMC5P5MC	5 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 904.00
HMC5P6MC	6 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 1059.00
DERVP004000	Optional Relief Cartridge	7 - 276 bar adjustment range				$ 86.00
HBPC5M	Cetop 5 Blanking Plate Kit (Includes bolts and o'rings.)					$ 88.00

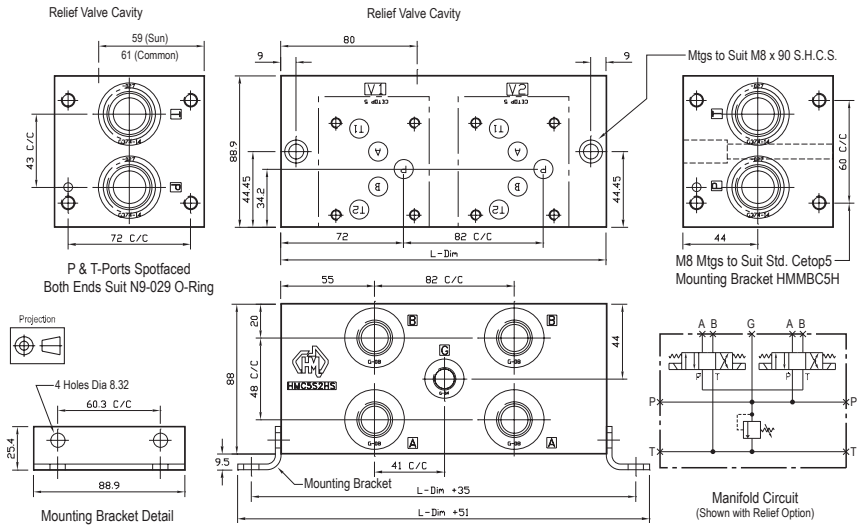


Note: Manifolds are supplied with Relief Valve Cavities machined but fitted with Blanking Plug (DE00).

No. of Stations	'L' Dim. (mm)
2	191
3	273
4	355
5	437
6	519

Series Manifold with Relief Cavity

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
HMC5S2MC	2 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 487.00
HMC5S3MC	3 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 636.00
HMC5S4MC	4 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 795.00
HMC5S5MC	5 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 949.00
HMC5S6MC	6 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 1270.00
DERVP004000	Optional Relief Cartridge	7 - 276 bar adjustment range				$ 86.00



Note: Manifolds are supplied with Relief Valve Cavities machined but fitted with Blanking Plug (DE00).

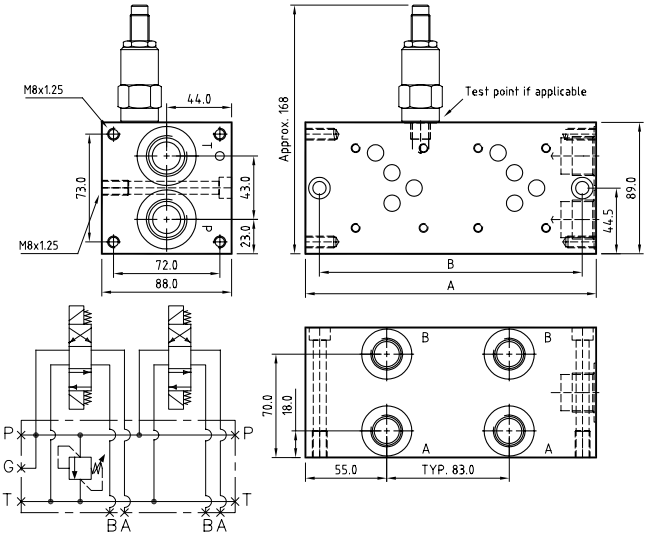
No. of Stations	'L' Dim. (mm)
2	191
3	273
4	355
5	437
6	519

Cetop 5 Manifolds

Cetop 5 Parallel & Series Alloy Manifolds

Parallel Manifold with Relief Cavity

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
M5P2AC	2 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 466.00
M5P3AC	3 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 609.00
M5P4AC	4 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 762.00
M5P5AC	5 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 904.00
M5P6AC	6 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 1059.00
041208038520	Optional Relief Cartridge	70 - 280 bar adjustment range				$ 179.00
EB105	Cetop 5 Blanking Plate Kit (Includes bolts and o'rings.)					$ 69.00

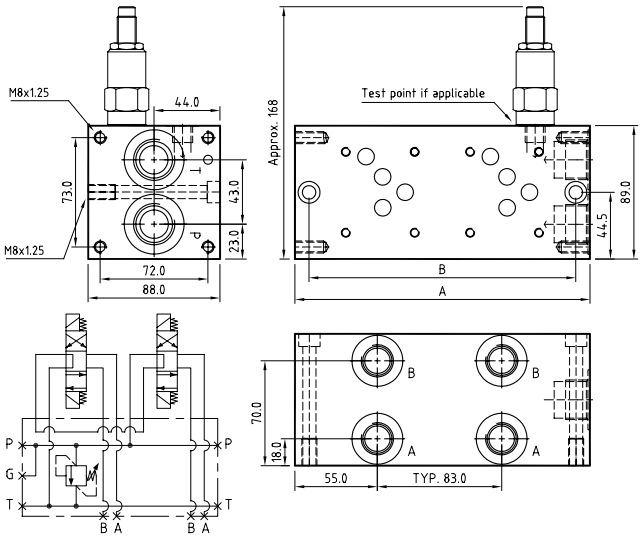


Note: Manifolds are supplied with Relief Valve Cavities machined but fitted with Blanking Plug (DE00).

No. of Stations	Dim. A (mm)	Dim. B (mm)
2	197	178
3	280	261
4	363	344
5	446	427
6	529	510

Series Manifold with Relief Cavity

Stock No.	Description	Pressure	A & B Ports	P & T Ports	G Port	List Price
M5S2AC	2 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 487.00
M5S3AC	3 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 635.00
M5S4AC	4 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 795.00
M5S5AC	5 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 949.00
M5S6AC	6 Station c/w Relief Cavity	210 BAR	1/2" BSPP	3/4" BSPP	1/4" BSPP	$ 1270.00
041208038520	Optional Relief Cartridge	70 - 280 bar adjustment range				$ 179.00

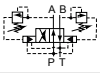
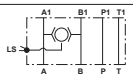
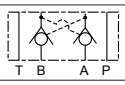
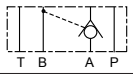
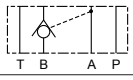
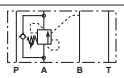
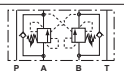
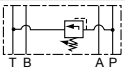
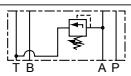
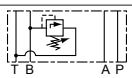
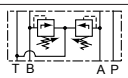
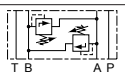
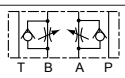
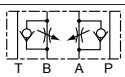
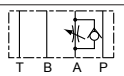
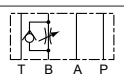
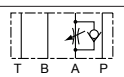
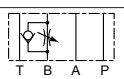
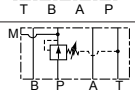
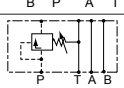


Note: Manifolds are supplied with Relief Valve Cavities machined but fitted with Blanking Plug (DE00).

No. of Stations	Dim. A (mm)	Dim. B (mm)
2	197	178
3	280	261
4	363	344
5	446	427
6	529	510

Modular (Sandwich) Valves

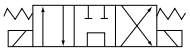
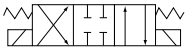
Modular (Sandwich) Valves

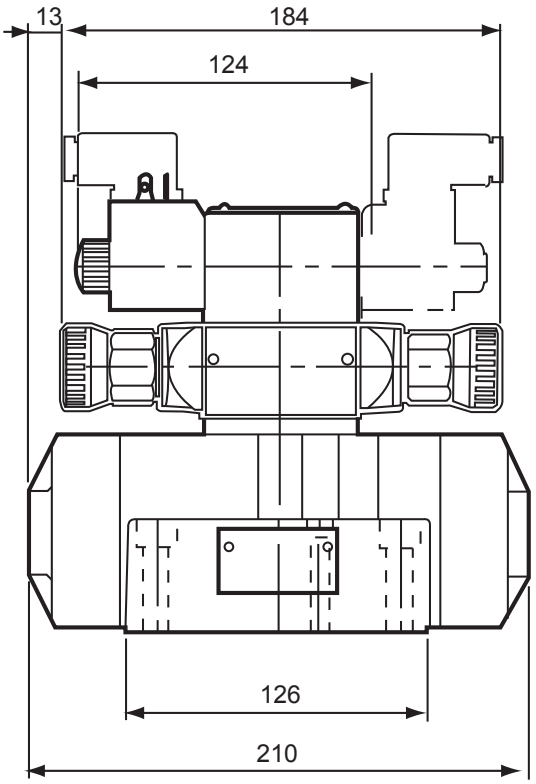
Stock No.	Symbol	Description	Cetop *	Flow	Pressure	List Price
059014032920		Auto Cycle	CETOP 3	3-35 LPM	Up to 350 BAR	$ 705.00
059014034320			CETOP 5	3-80 LPM	Up to 350 BAR	$ 821.00
EVSM103AB		Shuttle Valve	CETOP 3	40 LPM	310 BAR	$ 152.00
413450021021			CETOP 5	80 LPM	310 BAR	$ 297.00
LC1VRAB		Pilot Check A & B	CETOP 3	60 LPM	310 BAR	$ 279.00
LC2VRAB			CETOP 5	90 LPM	310 BAR	$ 418.00
LC1VRA		Pilot Check A	CETOP 3	60 LPM	310 BAR	$ 242.00
LC2VRA			CETOP 5	90 LPM	310 BAR	$ 363.00
LC1VRB		Pilot Check B	CETOP 3	60 LPM	310 BAR	$ 242.00
LC2VRB			CETOP 5	90 LPM	310 BAR	$ 363.00
LC1VRP		‘P’ Port Check	CETOP 3	40 LPM	310 BAR	$ 207.00
LC2VRP			CETOP 5	60 LPM	310 BAR	$ 252.00
L6136000A20		Overcentre Valve on A	CETOP 3	50 LPM	310 BAR	$ 503.00
L613600AB20		Overcentre Valve on A & B	CETOP 3	50 LPM	310 BAR	$ 576.00
P05MSVCC300			CETOP 5	113 LPM	207 BAR	$ 576.00
LC1VM1P1		Relief Valve P - T	CETOP 3	50 LPM	310 BAR	$ 242.00
LC2VM1P1			CETOP 5	80 LPM	310 BAR	$ 327.00
LC1VM1A1		Relief Valve A - T	CETOP 3	50 LPM	310 BAR	$ 242.00
LC2VM1A1			CETOP 5	80 LPM	310 BAR	$ 327.00
LC1VM1B1		Relief Valve B - T	CETOP 3	50 LPM	310 BAR	$ 242.00
LC2VM1B1			CETOP 5	80 LPM	310 BAR	$ 327.00
LC1VM1AB1		Relief Valve A & B - T	CETOP 3	50 LPM	310 BAR	$ 339.00
LC2VM1AB1			CETOP 5	90 LPM	310 BAR	$ 412.00
LC1VM2AB		Cross Line Relief A - B	CETOP 3	50 LPM	310 BAR	$ 351.00
LC2VM2AB			CETOP 5	90 LPM	310 BAR	$ 476.00
LC1VF2P		‘P’ Port Throttle Valve	CETOP 3	50 LPM	310 BAR	$ 227.00
LC2VF2P			CETOP 5	90 LPM	310 BAR	$ 298.00
LC1VF1AB		Flow Control A & B (Meter Out)	CETOP 3	50 LPM	310 BAR	$ 388.00
LC2VF1AB			CETOP 5	90 LPM	310 BAR	$ 496.00
LC1VF2AB		Flow Control A & B (Meter In)	CETOP 3	50 LPM	310 BAR	$ 388.00
LC2VF2AB			CETOP 5	90 LPM	310 BAR	$ 496.00
LC1VF1A		Flow Control A (Meter Out)	CETOP 3	50 LPM	310 BAR	$ 248.00
LC2VF1A			CETOP 5	90 LPM	310 BAR	$ 363.00
LC1VF1B		Flow Control B (Meter Out)	CETOP 3	50 LPM	310 BAR	$ 248.00
LC2VF1B			CETOP 5	90 LPM	310 BAR	$ 363.00
LC1VF2A		Flow Control A (Meter In)	CETOP 3	50 LPM	310 BAR	$ 272.00
LC2VF2A			CETOP 5	90 LPM	310 BAR	$ 369.00
LC1VF2B		Flow Control B (Meter In)	CETOP 3	50 LPM	310 BAR	$ 272.00
LC2VF2B			CETOP 5	90 LPM	310 BAR	$ 369.00
LC1VRPMIP		Pressure Reducing	CETOP 3	40 LPM	310 BAR	$ 462.00
LC2VRPMIP			CETOP 5	80 LPM	310 BAR	$ 684.00
L613102DISB		Sequence Valve	CETOP 3	50 LPM	310 BAR	$ 462.00
LC2VSPME2			CETOP 5	80 LPM	310 BAR	$ 684.00

LC35Z Solenoid Valves

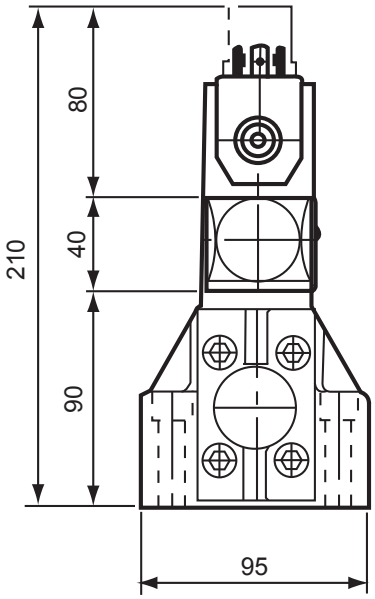
Cetop 7 Solenoid Operated Directional Control Valves

Max. Flow 250 l/min - Max. Operating Pressure 250 bar
Max. Tank Line Pressure: Dynamic = 250 bar - Static = 250 bar

Stock No.	Symbol	Description	List Price
LC35A2**		Double Solenoid, Spring Centred - 3 Position - 4 Way P to T, A & B Blocked in Neutral	$ 1591.00
LC35B2**		Double Solenoid, Spring Centred P, T, A & B Blocked in Neutral	$ 1475.00
LC35C2**		Double Solenoid, Spring Centred P, A & B Open to T in Neutral	$ 1591.00
LC35E2**		Double Solenoid, Spring Centred P Blocked, A & B open to T in Neutral	$ 1532.00
** Substitute for voltage required (eg 12VDC). Note: All valves include standard bolt kit and DIN connectors for each coil.			



LC35-Z	
With 1 Solenoid	8.66 kg
With 2 Solenoids	8.96 kg



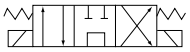
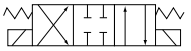
Cetop 7 Subplates

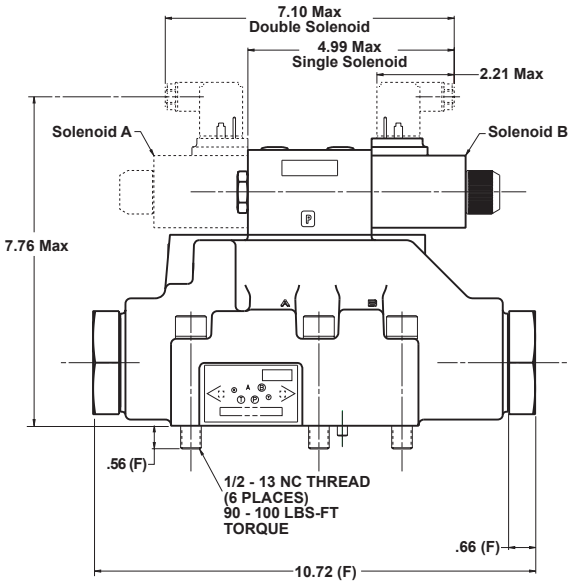
Stock No.	Ports	Description	List Price
PDM3520	1” BSPP	A-B-P-T Rear Ports	$ 358.00
PDM3521	1” BSPP	A-B Lateral Ports, P-T Rear Ports	$ 358.00
PDM3523	1” BSPP	A-B Lateral Ports, P-T Rear c/w Relief	$ 559.00
EB107	-	Cetop 7 Blanking Plate	$ 121.00
EB407	-	Cetop 7-5 Adaptor Plate	$ 156.00

VSD08M Solenoid Valves

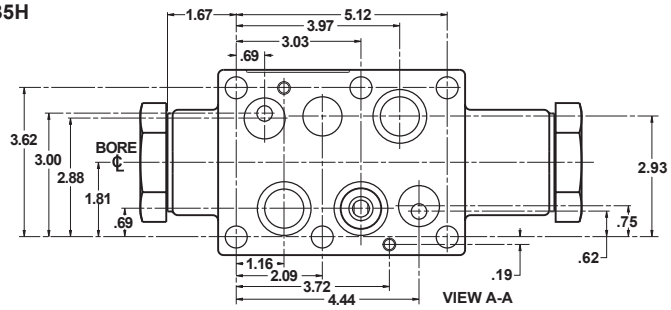
Cetop 8 Solenoid Operated Directional Control Valves

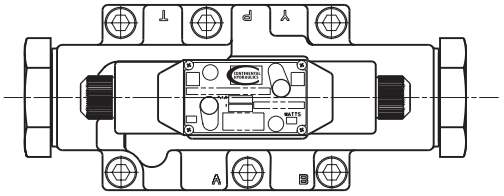
Max. Flow 473 l/min - Max. Operating Pressure 310 bar
Max. Tank Line Pressure: Dynamic = 210 bar - Static = 210 bar

Stock No.	Symbol	Description	List Price
VSD08M3LG3L**		Double Solenoid, Spring Centred - 3 Position - 4 Way P to T, A & B Blocked in Neutral	$ 2197.00
VSD08M3AG3L**		Double Solenoid, Spring Centred P, T, A & B Blocked in Neutral	$ 2092.00
VSD08M3BG3L**		Double Solenoid, Spring Centred P, A & B Open to T in Neutral	$ 2092.00
VSD08M3FG3L**		Double Solenoid, Spring Centred P Blocked, A & B open to T in Neutral	$ 2092.00
** Substitute for voltage required (eg 12VDC). Note: All valves include standard bolt kit and DIN connectors for each coil.			

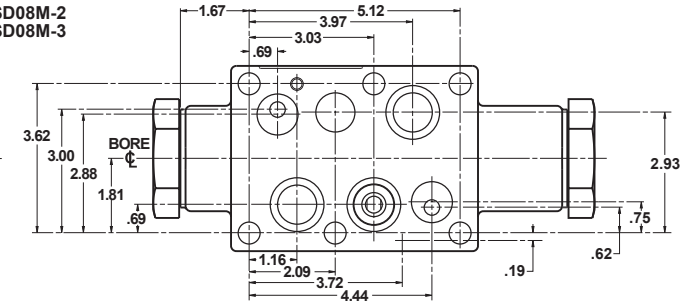


B3A
B3H
B4
B4A
B5A
B5H





VSD08M-2
VSD08M-3

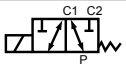
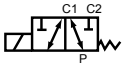
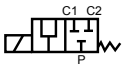
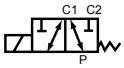
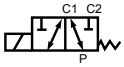


Cetop 8 Subplates

Stock No.	Ports	Description	List Price
ES8A114LL	1-1/4" BSPP	A-B-P-T Lateral Ports	$ 589.00
ES8A114PLX3F	1-1/4" BSPP	A-B Lateral Ports, P-T Rear Ports c/w Relief	$ 949.00
EB108	-	Cetop 8 Blanking Plate	$ 372.00
EB408	-	Cetop 8-7 Adaptor Plate	$ 530.00

VS Selector Valves

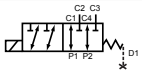
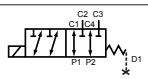
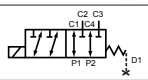
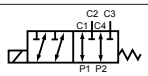
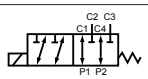
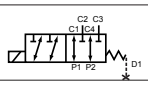
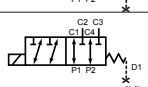
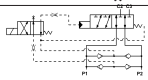
Solenoid Operated 3 Port Selector Valves

Stock No.	Symbol	Description	Port	Pressure	Flow	List Price
VS70A12DC		3 Port Selector	1/4” BSPP	250 BAR	25 LPM	$ 308.00
VS70A24DC		3 Port Selector	1/4” BSPP	250 BAR	25 LPM	$ 308.00
VS80A12DC		3 Port Selector	3/8” BSPP	250 BAR	50 LPM	$ 401.00
VS80A24DC		3 Port Selector	3/8” BSPP	250 BAR	50 LPM	$ 401.00
VS80D12DC		3 Port Selector	3/8” BSPP	250 BAR	50 LPM	$ 420.00
VS80DA24DC		3 Port Selector	3/8” BSPP	250 BAR	50 LPM	$ 420.00
VS100A12DC		3 Port Selector	1/2” BSPP	250 BAR	90 LPM	$ 494.00
VS100A24DC		3 Port Selector	1/2” BSPP	250 BAR	90 LPM	$ 494.00
VS105A12DC		3 Port Selector	3/4” BSPP	250 BAR	100 LPM	$ 523.00
VS105A24DC		3 Port Selector	3/4” BSPP	250 BAR	100 LPM	$ 523.00

3 Port Selector

6 Port Selector

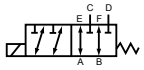
Solenoid Operated 6 Port Selector Valves

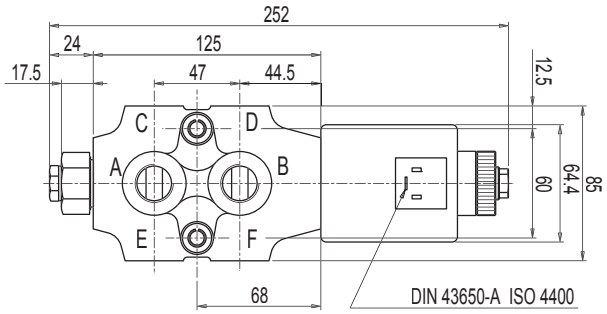
Stock No.	Symbol	Description	Port	Pressure	Flow	List Price
VS12012DC		6 Port Selector	1/4” BSPP	210 BAR	25 LPM	$ 352.00
VS12024DC		6 Port Selector	1/4” BSPP	210 BAR	25 LPM	$ 352.00
VS15012DC		6 Port Selector	3/8” BSPP	250 BAR	50 LPM	$ 457.00
VS15024DC		6 Port Selector	3/8” BSPP	250 BAR	50 LPM	$ 457.00
VS15212DC		6 Port Selector	1/2” BSPP	250 BAR	50 LPM	$ 457.00
VS15224DC		6 Port Selector	1/2” BSPP	250 BAR	50 LPM	$ 457.00
VS240F12DC		6 Port Selector	3/8” BSPP	250 BAR	50 LPM	$ 374.00
VS240F24DC		6 Port Selector	3/8” BSPP	250 BAR	50 LPM	$ 374.00
VS280F12DC		6 Port Selector	1/2” BSPP	250 BAR	90 LPM	$ 495.00
VS280F12DC		6 Port Selector	1/2” BSPP	250 BAR	90 LPM	$ 495.00
VS30012DC		6 Port Selector	1/2” BSPP	250 BAR	90 LPM	$ 623.00
VS30024DC		6 Port Selector	1/2” BSPP	250 BAR	90 LPM	$ 623.00
VS30512DC		6 Port Selector	3/4” BSPP	250 BAR	100 LPM	$ 642.00
VS30524DC		6 Port Selector	3/4” BSPP	250 BAR	100 LPM	$ 642.00
VS40012DC		6 Port Selector	1” BSPP	310 BAR	220 LPM	$ 3200.00
VS40024DC		6 Port Selector	1” BSPP	310 BAR	220 LPM	$ 3200.00

VS400 Selector

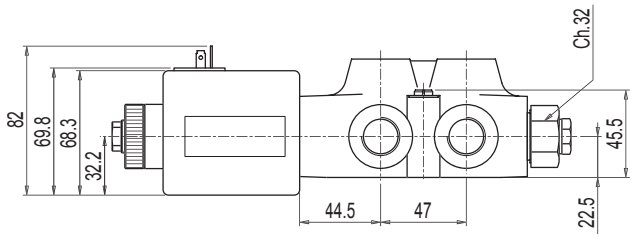
HCS Selector Valves

Solenoid Operated 6 Port Selector Valves

Stock No.	Symbol	Description	Port	Pressure	Flow	List Price
HCSVE08612		6 Port Selector	1/2” BSPP	160 BAR	60 LPM	$ 610.00
HCSVE08624		6 Port Selector	1/2” BSPP	160 BAR	60 LPM	$ 610.00



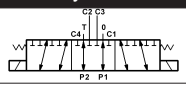
DIMENSIONS

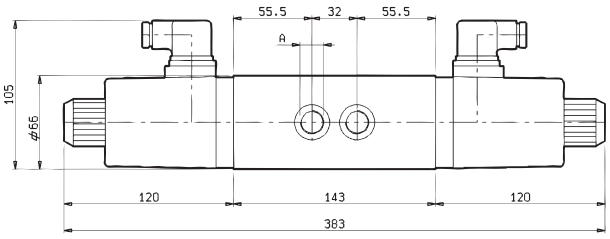


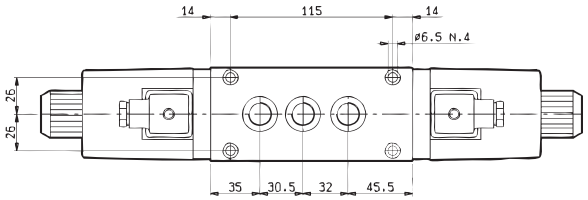
No Drain Available

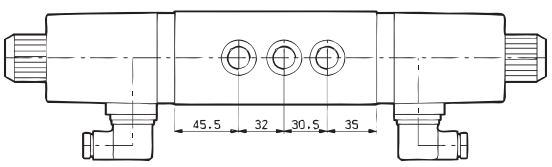
VS Selector Valves

Solenoid Operated 8 Port Selector Valves

Stock No.	Symbol	Description	Port	Pressure	Flow	List Price
VS50112DC		8 Port Selector	1/2” BSPP	250 BAR	60 LPM	$ 1116.00
VS50124DC		8 Port Selector	1/2” BSPP	250 BAR	60 LPM	$ 1116.00

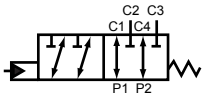




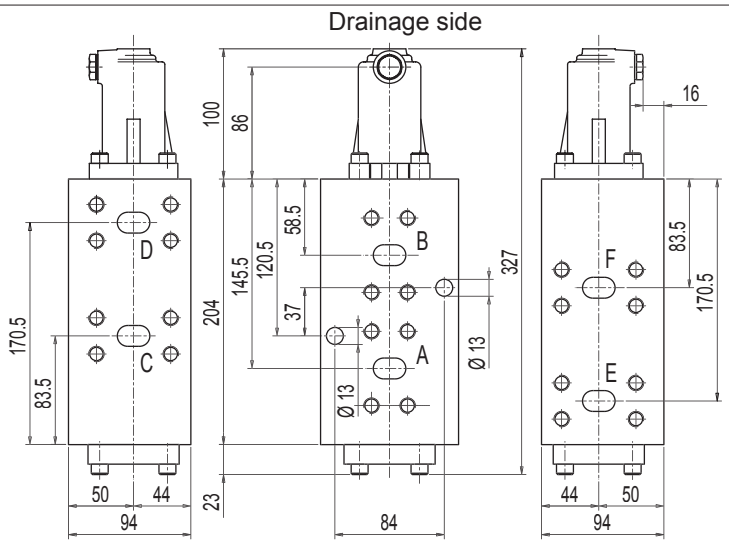


HC SVM Selector Valves

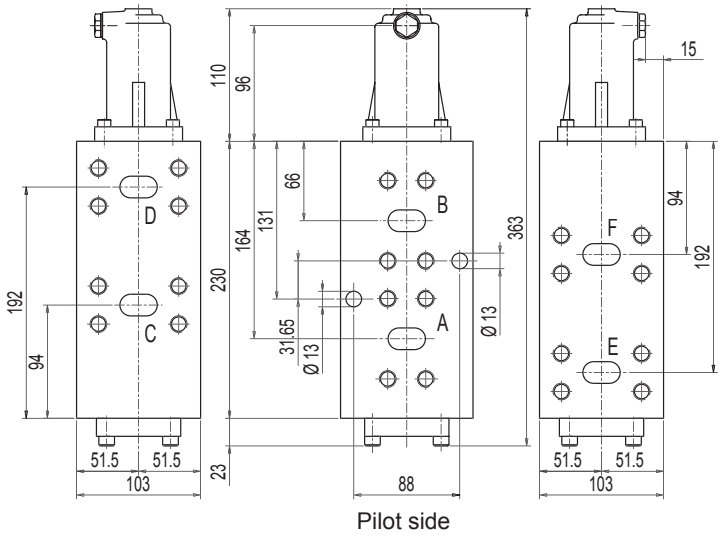
Hydraulic Pilot 6 Port Selector Valves

Stock No.	Symbol	Description	Port	Pressure	Flow	List Price
HCSVM206		6 Port Selector	1” Code 62	350 BAR	250 LPM	$ 2668.00
HCSVM306		6 Port Selector	1.25” Code 62	350 BAR	350 LPM	$ 3102.00

HCSVM206



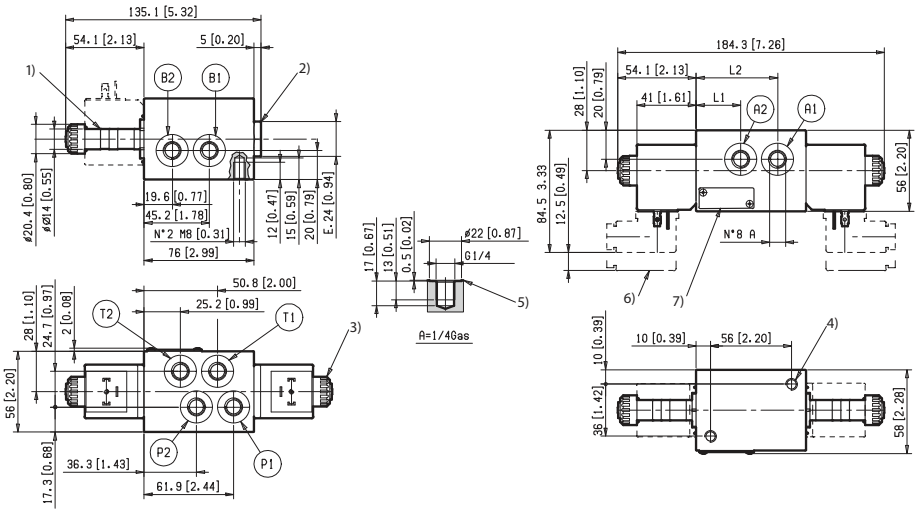
HCSVM306



L765 Selector Valves

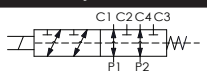
Solenoid Operated 8 Way 2 Position Pattern Changer

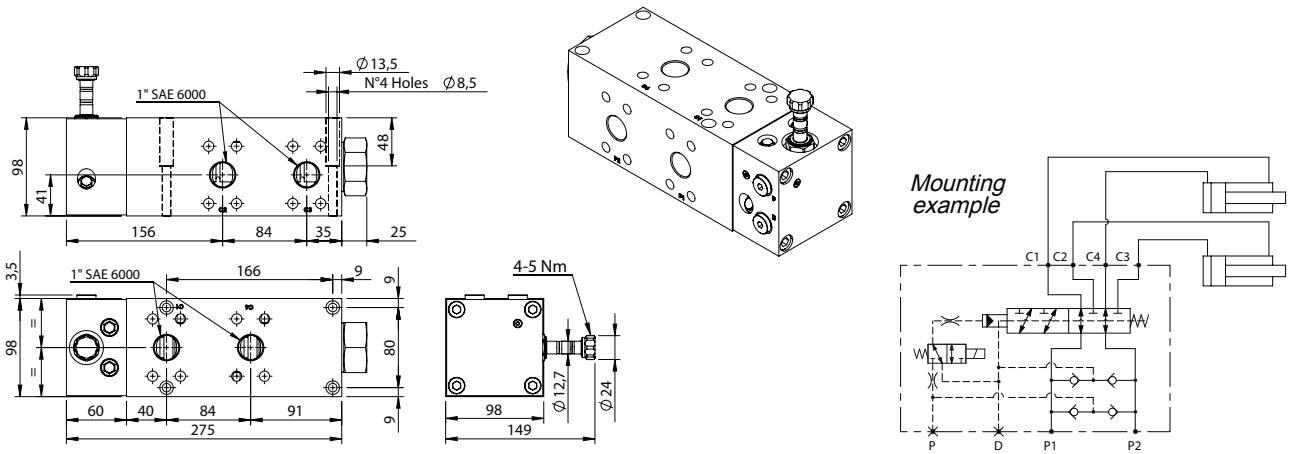
Stock No.	Symbol	Description	Port	Pressure	Flow	List Price
L765210BYI0B010		8 Port Selector 12 V	1/4" BSPP	210 BAR	10 LPM	$ 600.00
L765210BYI0C010		8 Port Selector 24 V	1/4" BSPP	210 BAR	10 LPM	$ 600.00
L765210CYI0B010		8 Port Selector 12 V with Detent	1/4" BSPP	210 BAR	10 LPM	$ 660.00
L765210CYI0C010		8 Port Selector 24 V with Detent	1/4" BSPP	210 BAR	10 LPM	$ 660.00



ELFB Selector Valves

Solenoid Operated 6 Port Selector Valves

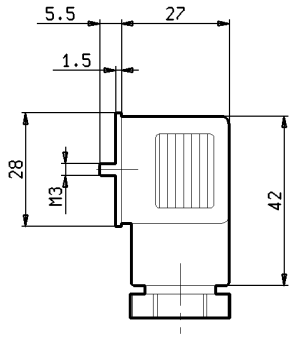
Stock No.	Symbol	Description	Port	Pressure	Flow	List Price
ELFB400A**		6 Port Selector	1" Code 62	420 BAR	400 LPM	$ 3500.00
ELFB400B**		6 Port Selector	1" Code 62	420 BAR	400 LPM	$ 3500.00



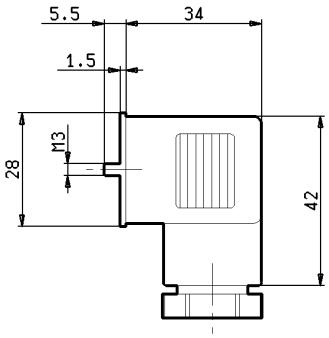
DIN Electrical Connectors

Stock No.	Description	List Price
18209N	Standard Connector - Black	$ 5.00
18209G	Standard Connector - Grey	$ 5.00
32200010	Standard Connector - Miniature	$ 13.00
182L0912VDC	Connector with LED Light - 12VDC	$ 19.00
182L0924VDC	Connector with LED Light - 24VDC	$ 19.00
182L09110VAC	Connector with LED Light - 110VAC	$ 19.00
182L09220VAC	Connector with LED Light - 220VAC	$ 19.00
11209NGIRAD	Rectified Connector - Black	$ 43.00
11209GGIRAD	Rectified Connector - Grey	$ 43.00

Standard / LED Connector



Rectified Connector



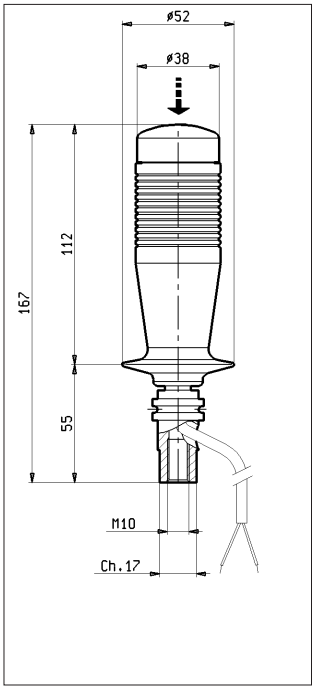
Standard Bolt Kits

Stock No.	Description	Fits Valve Type	Size	List Price
LC04BK0	Bolt Kit	Cetop 2	M5 x 25mm	$ 4.00
LC1BK0	Bolt Kit	Cetop 3	M5 x 30mm	$ 4.50
LC1BK1	Bolt Kit	Cetop 3	M5 x 70mm	$ 10.00
LC1BK2	Bolt Kit	Cetop 3	M5 x 110mm	$ 35.00
LC2BK0	Bolt Kit	Cetop 5	M6 x 35mm	$ 4.50
LC2BK1	Bolt Kit	Cetop 5	M6 x 80mm	$ 12.00
LC2BK2	Bolt Kit	Cetop 5	M6 x 125mm	$ 40.00

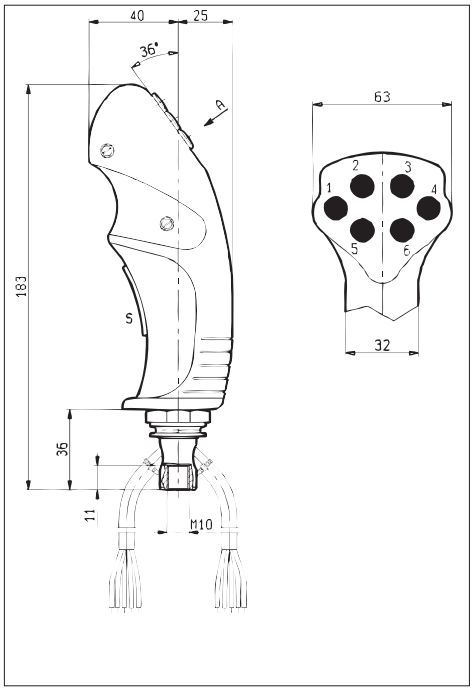
Cobra Lever Controls

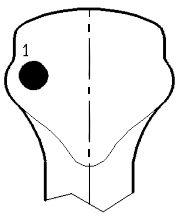
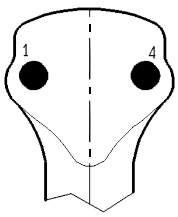
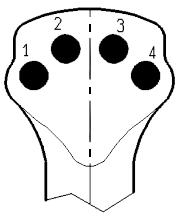
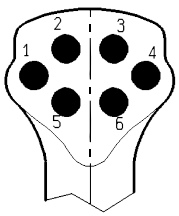
Stock No.	Switches	Button Type	Description	List Price
622930	One	Push Button	Single Switch - Vertical - Encapsulated	$ 154.00
LV-PCED-1	One	Push Button	Single Switch - Face - Push Button	$ 204.00
LC-PCED-2	Two	Push Button	Twin Switches - Face - Push Button	$ 255.00
LC-PCED-4	Four	Push Button	Four Switches - Face - Push Button	$ 356.00
LV-PCED-6	Six	Push Button	Six Switches - Face - Bush Button	$ 451.00

622930



LV-PCED-6



Code LV - PCED - 1	Code LV - PCED - 2	Code LV - PCED - 4	Code LV - PCED - 6
			

Section 3

Solenoid Cartridge Valves

MAKE	MODEL	PAGE
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Delta	Solenoid Operated Valves	3.04
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Delta	Solenoid Operated Valves	3.08
Delta	Mechanical Cartridge Valves	3.09
Delta	Mechanical Cartridge Valves	3.10
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Delta	Pressure Controls	3.15
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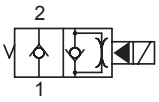
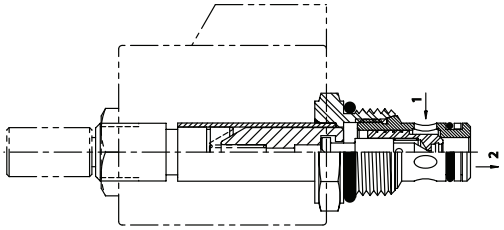
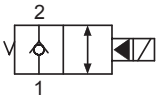
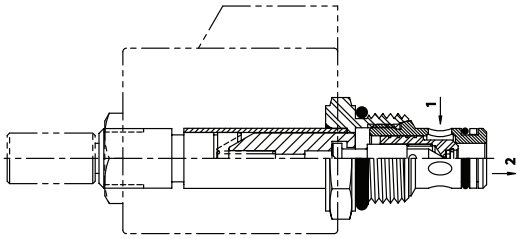
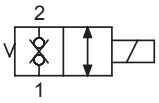
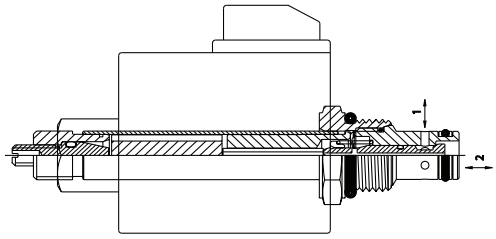
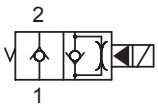
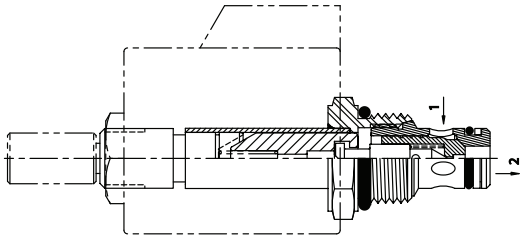
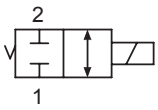
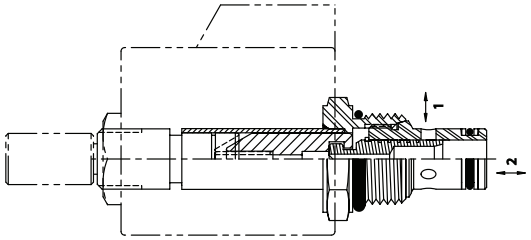
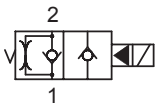
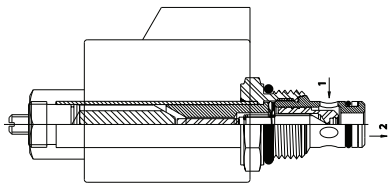
Solenoid Operated Valves

2 Way Pilot Operated Poppet Style

Schematic	Stock No.	Flow	Pressure	Cavity	Coil	Series	List Price
Normally Closed - Free Reverse Flow De-Energized							
	MASA200	19 LPM	207 BAR	5/8-18 2 Way	MHC	Mini	$ 74.00
	PBS2A00	30 LPM	240 BAR	3/4-16 2 Way	PHC	Power	$ 76.00
	DES2A00	45 LPM	240 BAR	7/8-14 2 Way	DHC	Delta	$ 82.00
	TTS2A00	112 LPM	207 BAR	1-1/16-12 2 Way	DHC	Tecnord	$ 119.00
	SJS2A00	151 LPM	240 BAR	1-5/16-12 2 Way	DHC	Super	$ 187.00
							
Normally Closed - Free Reverse Flow Energized & De-Energized							
	PBS2B00	30 LPM	240 BAR	3/4-16 2 Way	PHC	Power	$ 85.00
	DES2B00	45 LPM	240 BAR	7/8-14 2 Way	DHC	Delta	$ 87.00
	TTS2B00	112 LPM	207 BAR	1-1/16-12 2 Way	DHC	Tecnord	$ 126.00
	HTS2B00	132 LPM	345 BAR	1-1/16-12 2 Way	THC	Tecnord	$ 140.00
	SJS2B00	151 LPM	240 BAR	1-5/16-12 2 Way	DHC	Super	$ 196.00
							
Normally Closed - Bi-Directional							
	MAS2E00	0.95 LPM	207 BAR	5/8-18 2 Way	MHC	Mini	$ 95.00
	PBS2I00	15 LPM	207 BAR	3/4-16 2 Way	PHC	Power	$ 129.00
	DES2L00	45 LPM	207 BAR	7/8-14 2 Way	DHC	Delta	$ 130.00
	DES2I00	15 LPM	207 BAR	7/8-14 2 Way	DHC	Delta	$ 130.00
							

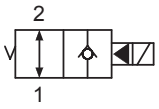
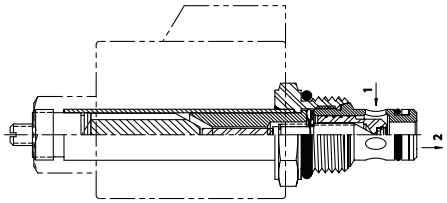
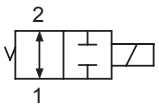
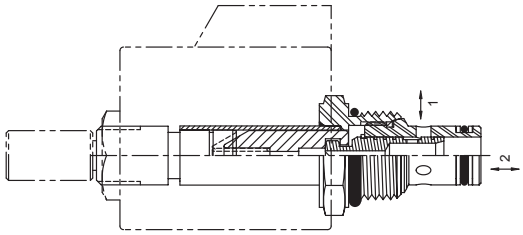
Solenoid Operated Valves

2 Way Pilot Operated Poppet Style

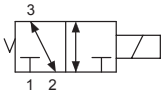
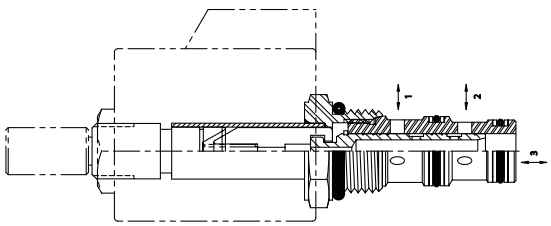
Schematic	Stock No.	Flow	Pressure	Cavity	Coil	Series	List Price
Normally Closed - Free Reverse Flow De-Energized, Soft Seat							
	MAS2F00	9.5 LPM	103 BAR	5/8-18 2 Way	MHC	Mini	$ 78.00
	PBS2F00	23 LPM	172 BAR	3/4-16 2 Way	PHC	Power	$ 107.00
	DES2F00	23 LPM	69 BAR	7/8-14 2 Way	DHC	Delta	$ 90.00
							
Normally Closed - Spool Valve							
	MAS2G00	7.6 LPM	207 BAR	5/8-18 2 Way	MHC	Mini	$ 66.00
	PBS2G00	11 LPM	207 BAR	3/4-16 2 Way	PHC	Power	$ 74.00
	DES2G00	30 LPM	207 BAR	7/8-14 2 Way	DHC	Delta	$ 77.00
							
Normally Open - Free Reverse Flow Energised							
	MAS2C00	19 LPM	207 BAR	5/8-18 2 Way	MHC	Mini	$ 99.00
	PBS2C00	30 LPM	240 BAR	3/4-16 2 Way	PHC	Power	$ 101.00
	DES2C00	45 LPM	207 BAR	7/8-14 2 Way	DHC	Delta	$ 107.00
	TTS2C00	112 LPM	240 BAR	1-1/16-12 2 Way	DHC	Tecnord	$ 139.00
	SJS2C00	151 LPM	207 BAR	1-5/16-12 2 Way	DHC	Super	$ 204.00
							

Solenoid Operated Valves

2 Way Pilot Operated Poppet Style

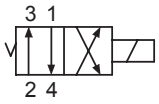
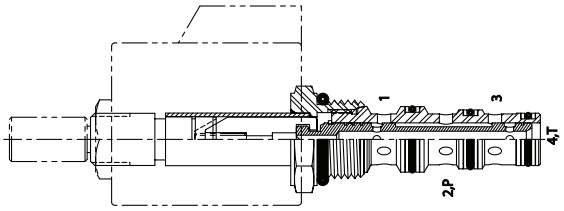
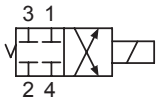
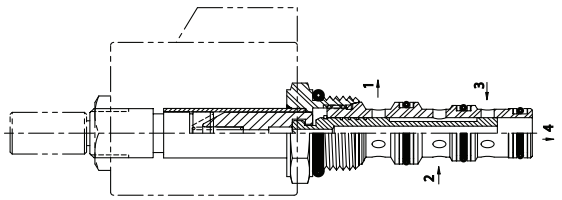
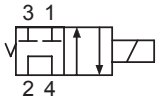
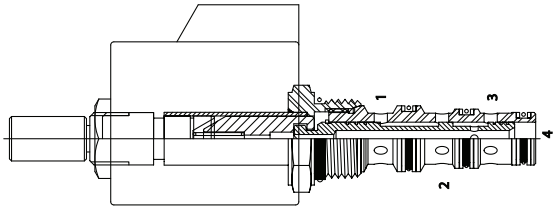
Schematic	Stock No.	Flow	Pressure	Cavity	Coil	Series	List Price
Normally Open - Free Reverse Flow Energised & De-Energized							
	PBS2D00	30 LPM	240 BAR	3/4-16 2 Way	PHC	Power	$ 110.00
	DES2D00	45 LPM	240 BAR	7/8-14 2 Way	DHC	Delta	$ 113.00
	TTS2D00	112 LPM	207 BAR	1-1/16-12 2 Way	DHC	Tecnord	$ 144.00
	SJS2D00	151 LPM	240 BAR	1-5/16-12 2 Way	DHC	Super	$ 218.00
							
Normally Open - Spool Valve							
	MAS2H00	7.6 LPM	207 BAR	5/8-18 2 Way	MHC	Mini	$ 68.00
	PBS2H00	11 LPM	207 BAR	3/4-16 2 Way	PHC	Power	$ 76.00
	DES2H00	23 LPM	207 BAR	7/8-14 2 Way	DHC	Delta	$ 78.00
							

3 Way 2 Position - Spool Valve

Schematic	Stock No.	Flow	Pressure	Cavity	Coil	Series	List Price
	MCS3A00	7.6 LPM	207 BAR	5/8-18 3 Way	MHC	Mini	$ 83.00
	PPS3A00	11 LPM	207 BAR	3/4-16 3 Way	PHC	Power	$ 85.00
	DFS3A00	38 LPM	207 BAR	7/8-14 3 Way	DHC	Delta	$ 87.00
	HUS3E00	56 LPM	345 BAR	1-1/16-12 3 Way	THC	Tecnord	$ 174.00
	HUS3F00	56 LPM	345 BAR	1-1/16-12 3 Way	THC	Tecnord	$ 172.00
	DFS3B00	34 LPM	207 BAR	7/8-14 3 Way	DHC	Delta	$ 87.00
	MCS3T00	7.6 LPM	103 BAR	5/8-18 3 Way	MHC	Mini	$ 86.00
	DFS3T00	23 LPM	103 BAR	7/8-14 3 Way	DHC	Delta	$ 87.00
	PPS3X00	11 LPM	207 BAR	3/4-16 3 Way	PHC	Power	$ 86.00
	PPS3D00	11 LPM	207 BAR	3/4-16 3 Way	PHC	Power	$ 85.00
							

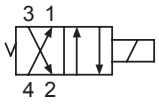
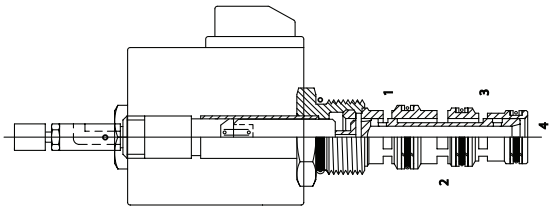
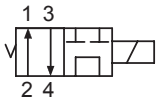
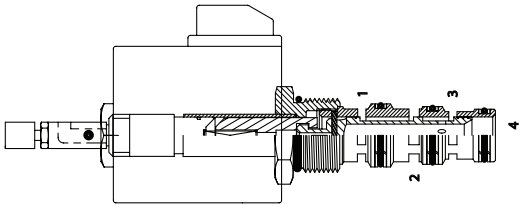
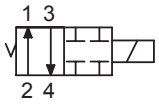
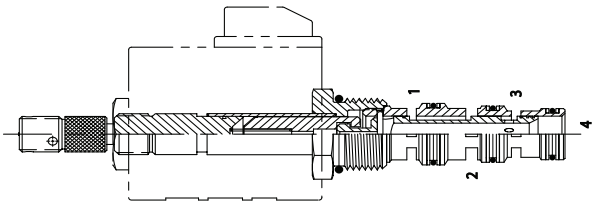
Solenoid Operated Valves

4 Way 2 Position - Spool Valve

Schematic	Stock No.	Flow	Pressure	Cavity	Coil	Series	List Price
Criss Cross - Spool Valve							
	MDS4A00	5.7 LPM	207 BAR	5/8-18 4 Way	MHC	Mini	$ 102.00
	PQS4A00	11 LPM	207 BAR	3/4-16 4 Way	PHC	Power	$ 107.00
	DGS4A00	30 LPM	207 BAR	7/8-14 4 Way	DHC	Delta	$ 110.00
	HVS4A00	56 LPM	345 BAR	1-1/16-12 4 Way	THC	Tecnord	$ 216.00
							
Closed Centre - Spool Valve							
	MDS4B00	5.7 LPM	207 BAR	5/8-18 4 Way	MHC	Mini	$ 106.00
	PQS4B00	11 LPM	207 BAR	3/4-16 4 Way	PHC	Power	$ 107.00
	DGS4B00	38 LPM	207 BAR	7/8-14 4 Way	DHC	Delta	$ 107.00
							
Tandem Centre - Spool Valve							
	PQS4C00	11 LPM	207 BAR	3/4-16 4 Way	PHC	Power	$ 108.00
	DGS4C00	38 LPM	207 BAR	7/8-14 4 Way	DHC	Delta	$ 113.00
							

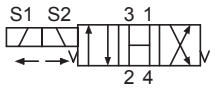
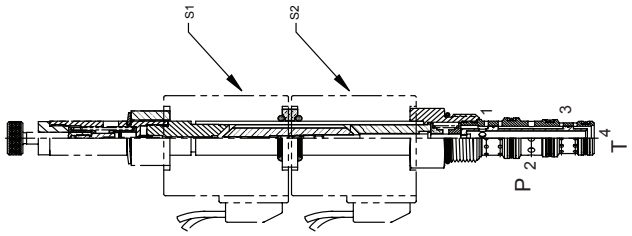
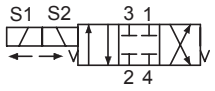
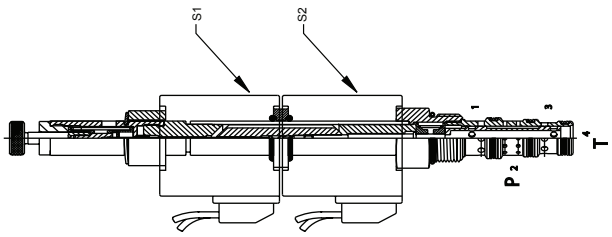
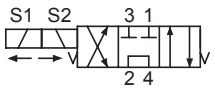
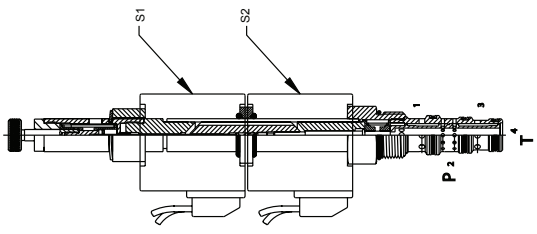
Solenoid Operated Valves

4 Way 2 Position - Spool Valve

Schematic	Stock No.	Flow	Pressure	Cavity	Coil	Series	List Price
Reverse Criss Cross - Spool Valve							
	PQS4D00	11 LPM	207 BAR	3/4-16 4 Way	PHC	Power	$ 109.00
	DGS4D00	38 LPM	207 BAR	7/8-14 4 Way	DHC	Delta	$ 119.00
							
Series / Parallel - Spool Valve							
	DGS4E00	19 LPM	207 BAR	7/8-14 4 Way	DHC	Delta	$ 118.00
	HVS4E00	56 LPM	345 BAR	1-1/16-12 4 Way	THC	Tecnord	$ 202.00
							
Energise To Block - Spool Valve							
	DGS4F00	19 LPM	207 BAR	7/8-14 4 Way	DHC	Delta	$ 126.00
							

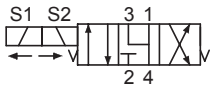
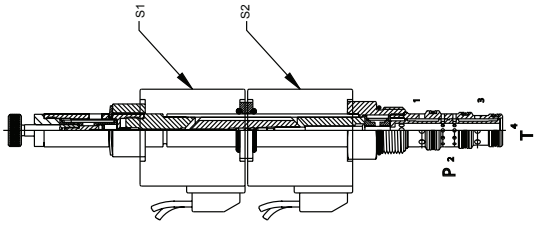
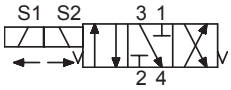
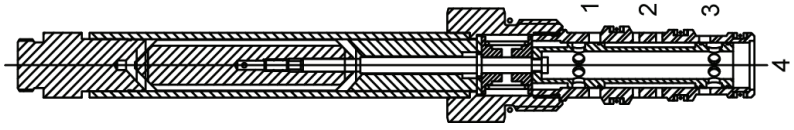
Solenoid Operated Valves

4 Way 3 Position - Spool Valve **2 Coils Required

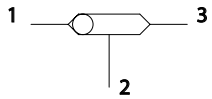
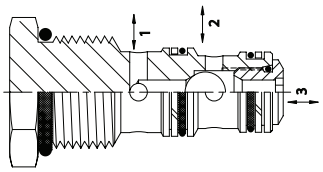
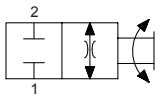
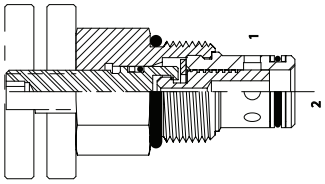
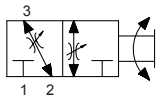
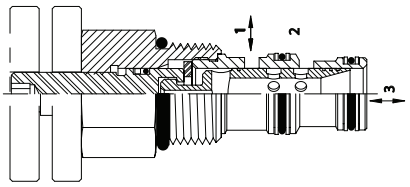
Schematic	Stock No.	Flow	Pressure	Cavity	Coil	Series	List Price
Open Centre							
	PQS4O00	12 LPM	207 BAR	3/4-16 4 Way	DHC	Power	$ 261.00
	PQS4T00	19 LPM	207 BAR	3/4-16 4 Way	DHC	Power	$ 272.00
	DGS4O00	23 LPM	207 BAR	7/8-12 4 Way	LHC	Delta	$ 264.00
							
Closed Centre							
	PQS4Q00	12 LPM	207 BAR	3/4-16 4 Way	PHC	Power	$ 246.00
	PQS4P00	23 LPM	207 BAR	3/4-16 4 Way	DHC	Power	$ 247.00
	DGS4P00	23 LPM	207 BAR	7/8-12 4 Way	LHC	Delta	$ 261.00
							
Tandem Centre							
	PQS4N00	12 LPM	207 BAR	3/4-16 4 Way	DHC	Power	$ 261.00
	PQS4R00	7.6 LPM	207 BAR	3/4-16 4 Way	PHC	Power	$ 246.00
	DGS4N00	23 LPM	207 BAR	7/8-12 4 Way	LHC	Delta	$ 261.00
							

Solenoid Operated Valves

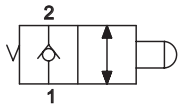
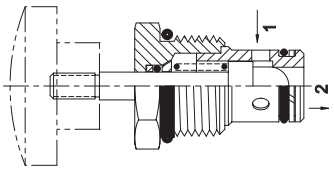
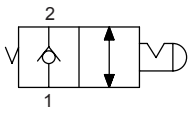
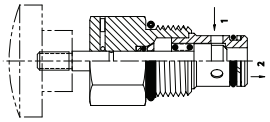
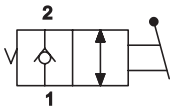
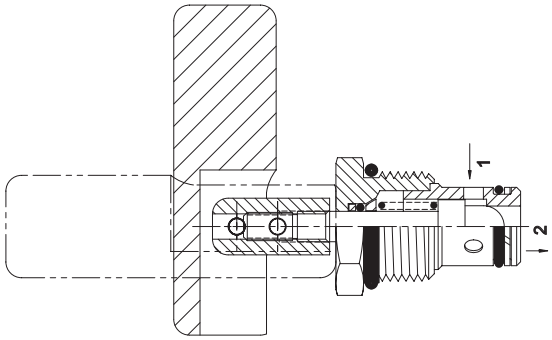
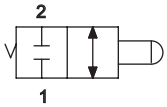
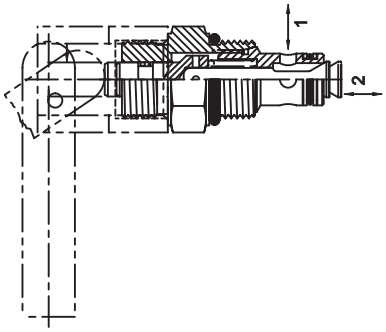
4 Way 3 Position - Spool Valve **2 Coils Required

Schematic	Stock No.	Flow	Pressure	Cavity	Coil	Series	List Price
Motor Spool							
	PQS4M00	23 LPM	207 BAR	3/4-16 4 Way	DHC	Power	$ 249.00
	DGS4M00	23 LPM	207 BAR	7/8-12 4 Way	LHC	Delta	$ 261.00
							
Scotch Centre							
	DGS4S00	23 LPM	207 BAR	7/8-12 4 Way	LHC	Delta	$ 264.00
							

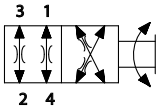
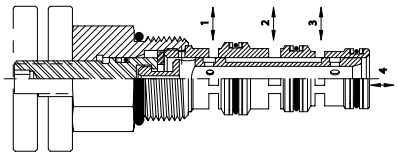
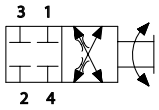
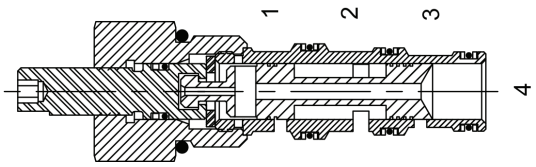
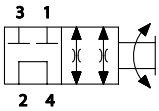
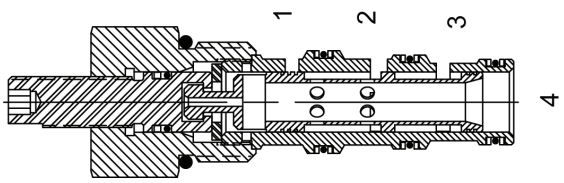
Mechanical Cartridge Valves

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Shuttle						
	PPCSB00	23 LPM	240 BAR	3/4-16 3 Way	Power	$ 40.00
	DFCSB00	38 LPM	240 BAR	7/8-14 3 Way	Delta	$ 42.00
	IMCSB00	38 LPM	240 BAR	9/16 UNO	-	$ 100.00
						
Manual 2W2P						
	DEM2G00	38 LPM	207 BAR	7/8-14 2 Way	Delta	$ 96.00
						
Manual 3W2P						
	DFM3A0K	38 LPM	270 BAR	7/8-14 3 Way	Delta	$ 107.00
						

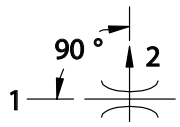
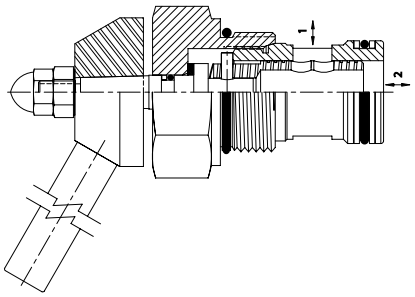
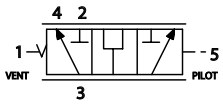
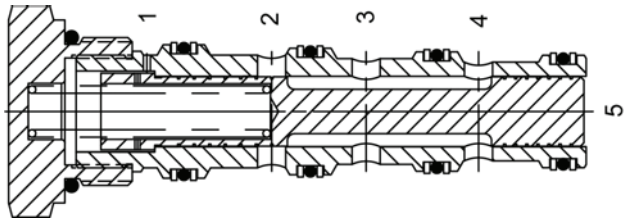
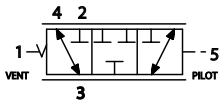
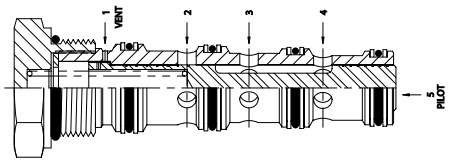
Mechanical Cartridge Valves

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Manual Pull 2W2P						
	PBMCA0K	23 LPM	240 BAR	3/4-16 2 Way	Power	$ 68.00
	DEMCA00	53 LPM	240 BAR	7/8-14 2 Way	Delta	$ 68.00
						
	DEMCB00	53 LPM	240 BAR	7/8-14 2 Way	Delta	$ 90.00
						
	PBMCL00	30 LPM	240 BAR	3/4-16 2 Way	Power	$ 95.00
	DEMCL00	53 LPM	240 BAR	7/8-14 2 Way	Delta	$ 90.00
						
	PBMCI00	30 LPM	240 BAR	3/4-16 2 Way	Power	$ 84.00
						

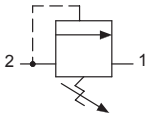
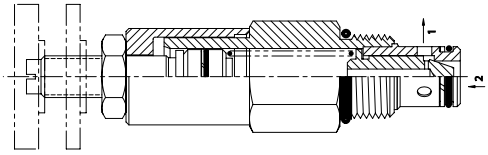
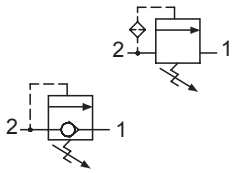
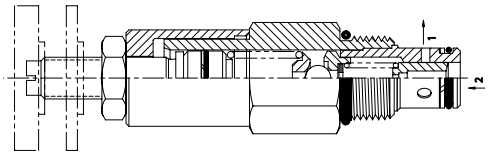
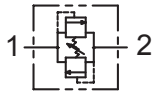
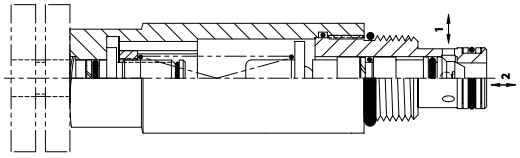
Mechanical Cartridge Valves

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Manual 4W2P						
	DGM4A0K	38 LPM	207 BAR	7/8-14 4 Way	Delta	$ 145.00
						
	DGM4B0K	38 LPM	207 BAR	7/8-14 4 Way	Delta	$ 145.00
						
	DGM4C0K	38 LPM	207 BAR	7/8-14 4 Way	Delta	$ 145.00
						

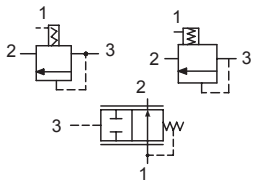
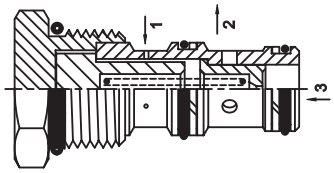
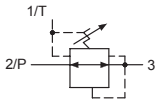
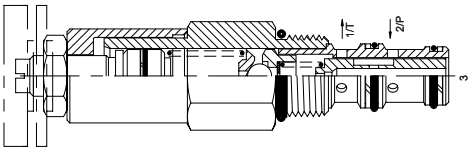
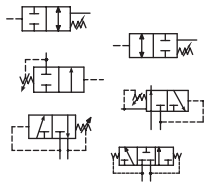
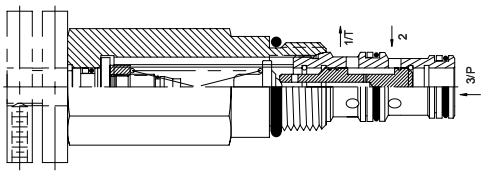
Mechanical Cartridge Valves

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Manual 2W Rotary						
	SJMRA00	151 LPM	207 BAR	1-5/16 -12 2 Way	Super	$ 201.00
						
3W Pilot to Shift						
	SOPTS00	151 LPM	240 BAR	1-5/16 -12 2 Way	Super	$ 190.00
						
	SOPTT00	150 LPM	240 BAR	1-5/16 -12 2 Way	Super	$ 190.00
						

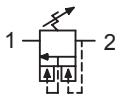
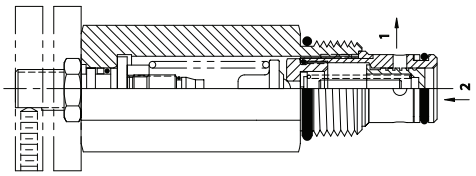
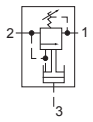
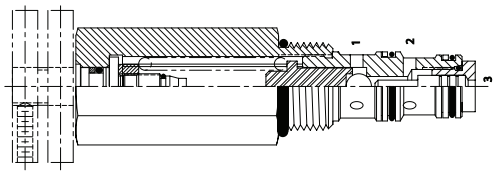
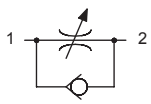
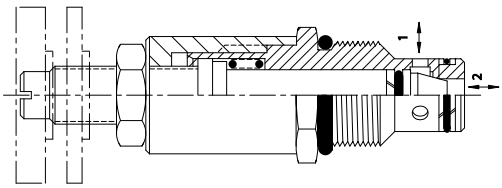
Pressure Controls

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Relief Valves - Direct and Differential						
	MARVA00	19 LPM	207 BAR	5/8-18 2 Way	Mini	$ 71.00
	PBRVA00	30 LPM	240 BAR	3/4-16 2 Way	Power	$ 71.00
	PBRWA00	30 LPM	240 BAR	3/4-16 2 Way	Power	$ 71.00
	DERVA00	38 LPM	275 BAR	7/8-14 2 Way	Delta	$ 81.00
	DERWA00	57 LPM	345 BAR	7/8-14 2 Way	Delta	$ 86.00
	DERCA00	57 LPM	207 BAR	7/8-14 2 Way	Delta	$ 86.00
	PBRVD00	30 LPM	240 BAR	7/8-14 2 Way	Delta	$ 73.00
	DERVD00	57 LPM	275 BAR	7/8-14 2 Way	Delta	$ 81.00
	DERWD00	57 LPM	275 BAR	7/8-14 2 Way	Delta	$ 88.00
	DERCD00	57 LPM	207 BAR	7/8-14 2 Way	Delta	$ 81.00
						
Relief Valves - Pilot Operated						
	DERVP00	76 LPM	275 BAR	7/8-14 2 Way	Delta	$ 86.00
	DERWP00	76 LPM	275 BAR	7/8-14 2 Way	Delta	$ 107.00
	DERVR00	57 LPM	275 BAR	7/8-14 2 Way	Delta	$ 113.00
	DERWR00	57 LPM	275 BAR	7/8-14 2 Way	Delta	$ 119.00
	HTRVP00	114 LPM	345 BAR	1-1/16-12 2 Way	Tecnord	$ 157.00
	SJRVP00	115 LPM	240 BAR	1-5/16-12 2 Way	Super	$ 242.00
						
Relief Valves - Cross Over						
	DERVC00	76 LPM	276 BAR	7/8-14 2 Way	Delta	$ 147.00
						

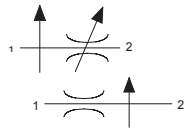
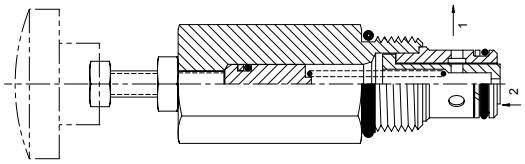
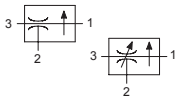
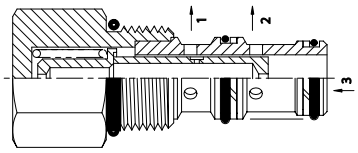
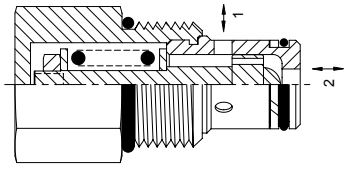
Pressure Controls

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Pressure Compensate Regulator						
	DFPCR00	38 LPM	240 BAR	7/8-14 3 Way	Delta	$ 86.00
	TRPCA00	114 LPM	240 BAR	1-1/16-12 3 Way S	Tecnord	$ 117.00
	SLPCA00	151 LPM	240 BAR	1-5/16-12 3 Way	Super	$ 132.00
	SLPCB00	151 LPM	240 BAR	1-5/16-12 3 Way	Super	$ 132.00
	DFPCS00	30 LPM	240 BAR	7/8-14 3 Way	Delta	$ 80.00
	DGPCB00	30 LPM	240 BAR	7/8-14 3 Way	Delta	$ 103.00
						
Pressure Reducing Valves						
	DFPRP00	30 LPM	207 BAR	7/8-14 3 Way	Delta	$ 115.00
	DFPWP00	30 LPM	207 BAR	7/8-14 3 Way	Delta	$ 134.00
	SKPRP00	151 LPM	207 BAR	1-5/16-12 3 Way	Super	$ 300.00
						
Sequence Valves						
	DGPSO00	34 LPM	207 BAR	7/8-14 4 Way	Delta	$ 153.00
	DGPSC00	34 LPM	207 BAR	7/8-14 4 Way	Delta	$ 149.00
	DFPWI00	34 LPM	207 BAR	7/8-14 3 Way	Delta	$ 115.00
	DFPWE00	34 LPM	207 BAR	7/8-14 3 Way	Delta	$ 115.00
	DGPSI00	34 LPM	207 BAR	7/8-14 4 Way	Delta	$ 104.00
	DGPSA00	34 LPM	207 BAR	7/8-14 4 Way	Delta	$ 110.00
	DGPSS00	45 LPM	207 BAR	7/8-14 4 Way	Delta	$ 89.00
						

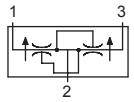
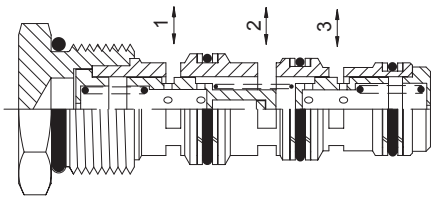
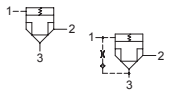
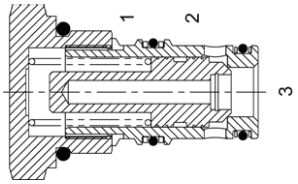
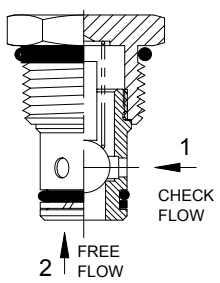
Pressure Controls

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Kick Down						
	DEPSD00	57 LPM	207 BAR	7/8-14 2 Way	Delta	$ 105.00
						
Pump Unloading						
	DFPUV00	4 LPM	207 BAR	7/8-14 3 Way	Delta	$ 134.00
						
Flow Restrictors, Adjustable (Needle Valves)						
	MANVA00	19 LPM	240 BAR	5/8-18 2 Way	Mini	$ 54.00
	PBNVB00	19 LPM	240 BAR	3/4-16 2 Way	Power	$ 57.00
	PBNVA00	23 LPM	240 BAR	3/4-16 2 Way	Power	$ 57.00
	DEFCH00	45 LPM	240 BAR	7/8-14 2 Way	Delta	$ 83.00
	DENVA00	57 LPM	240 BAR	7/8-14 2 Way	Delta	$ 57.00
	DENVB00	57 LPM	240 BAR	7/8-14 2 Way	Delta	$ 59.00
	HTNVA00	132 LPM	345 BAR	1-1/16-12 2 Way	Tecnord	$ 96.00
	SJNVA00	151 LPM	240 BAR	1-5/16-12 2 Way	Super	$ 190.00
						

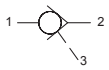
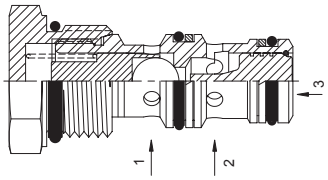
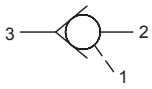
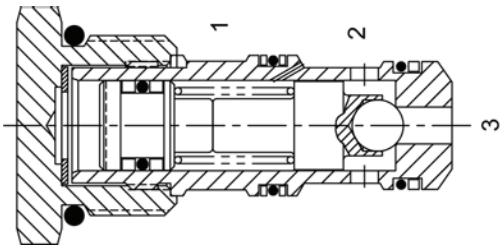
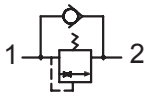
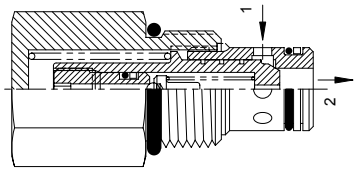
Pressure Controls

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Pressure Compensated Flow Regulator						
	MAFCA00	11 LPM	207 BAR	5/8-18 2 Way	Mini	$ 77.00
	PBFCA00	15 LPM	240 BAR	3/4-16 2 Way	Power	$ 71.00
	DEFCA00	30 LPM	240 BAR	7/8-14 2 Way	Delta	$ 68.00
	DEFCB00	30 LPM	240 BAR	7/8-14 2 Way	Delta	$ 80.00
	DEFCC00	30 LPM	240 BAR	7/8-14 2 Way	Delta	$ 94.00
	DEFCF00	30 LPM	240 BAR	7/8-14 2 Way	Delta	$ 60.00
	HTFCA00	76 LPM	345 BAR	1-1/16-12 2 Way	Tecnord	$ 153.00
	SJFCA00	95 LPM	240 BAR	1-5/16-12 2 Way	Super	$ 203.00
						
Priority Flow Regulator						
	DFFCP00	38 LPM	207 BAR	7/8-14 3 Way	Delta	$ 71.00
	DFFCQ00	38 LPM	207 BAR	7/8-14 3 Way	Delta	$ 96.00
	SKFCQ00	95 LPM	240 BAR	1-5/16-12 3 Way	Super	$ 220.00
						
Velocity Fuse						
	DECVF00	38 LPM	240 BAR	7/8-14	Delta	$ 42.00
						

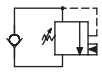
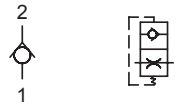
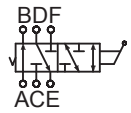
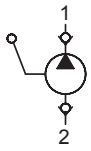
Pressure Controls

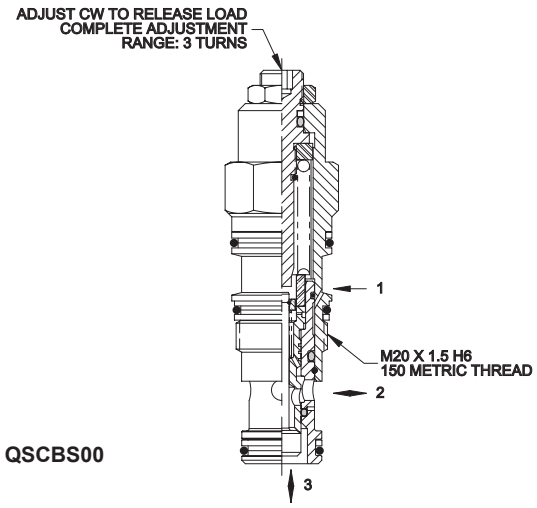
Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Flow Divider / Combiner						
	DGFDH00	30 LPM	240 BAR	7/8-14 4 Way	Delta	$ 166.00
	DGFDA00	45 LPM	240 BAR	7/8-14 4 Way	Delta	$ 130.00
	DGFDB00	45 LPM	240 BAR	7/8-14 4 Way	Delta	$ 130.00
	DGFDT00	45 LPM	240 BAR	7/8-14 4 Way	Delta	$ 161.00
	SNFDA00	151 LPM	240 BAR	1-5/16-12 4 Way	Super	$ 223.00
						
Logic Elements						
	SLPLA00	151 LPM	240 BAR	1-5/16-12 3 Way	Super	$ 127.00
	SLPLB00	151 LPM	240 BAR	1-5/16-12 3 Way	Super	$ 123.00
	SLPLC00	151 LPM	240 BAR	1-5/16-12 3 Way	Super	$ 140.00
						
Check Valves - Direct Acting						
	MACVA00	19 LPM	240 BAR	5/8-18 2 Way	Mini	$ 36.00
	DECVA00	57 LPM	240 BAR	7/8-14 2 Way	Delta	$ 42.00
	HTCVA00	132 LPM	345 BAR	1-1/16-12 2 Way	Tecnord	$ 67.00
	SJCVA00	151 LPM	240 BAR	1-5/16-12 2 Way	Super	$ 98.00
	DECVB00	57 LPM	240 BAR	7/8-14 2 Way	Delta	$ 34.00
	PBCVC00	30 LPM	240 BAR	3/4-16 2 Way	Power	$ 38.00
	DECVC00	57 LPM	240 BAR	7/8-14 2 Way	Delta	$ 38.00
	MACVS00	9 LPM	103 BAR	5/8-18 2 Way	Mini	$ 48.00
	PBCVS00	30 LPM	240 BAR	3/4-16 2 Way	Power	$ 51.00
	DECVS00	23 LPM	69 BAR	7/8-14 2 Way	Delta	$ 51.00
	DECVR00	30 LPM	240 BAR	7/8-14 2 Way	Delta	$ 47.00
						

Pressure Controls

Schematic	Stock No.	Flow	Pressure	Cavity	Series	List Price
Check Valves - Pilot To Open						
	PPCPB00	23 LPM	240 BAR	3/4-16 3 Way	Power	$ 68.00
	DFCPB00	30 LPM	240 BAR	7/8-14 3 Way	Delta	$ 71.00
	DFCPC00	30 LPM	240 BAR	7/8-14 3 Way	Delta	$ 81.00
						
Check Valves - Pilot To Close						
	DFCPD00	38 LPM	240 BAR	7/8-14 3 Way	Delta	$ 81.00
	SLCPD00	151 LPM	240 BAR	1-5/16-12 3 Way	Super	$ 172.00
						
Check Valves - With Thermal Relief						
	DECVT00	57 LPM	275 BAR	7/8-14 2 Way	Delta	$ 63.00
						

Special Valves

Schematic	Stock No.	Flow	Pressure	Cavity	List Price
Overcentre (Counter-Balance)					
	QSCBS00	57 LPM	275 BAR	SUN M20x1.5	$ 131.00
Inline Valves					
	IMCVA00	30 LPM	207 BAR	3/4” UNO	$ 54.00
	IMCVF11	23 LPM	240 BAR	3/8” NPT	$ 54.00
	IMCVF13	23 LPM	240 BAR	3/8” NPT / 9/16” JIC	$ 54.00
Special Application Valves					
	QSMRS00	95 LPM	207 BAR	3/4” UNO	$ 279.00
Hand Pumps					
	DEHPA00	-	140 BAR	7/8-14 2 Way	$ 107.00
	DEHPB00	-	138 BAR	7/8-14 2 Way	$ 173.00
	DEHPC00	-	34 BAR	7/8-14 2 Way	$ 107.00
	DEHPD00	-	138 BAR	7/8-14 2 Way	$ 173.00



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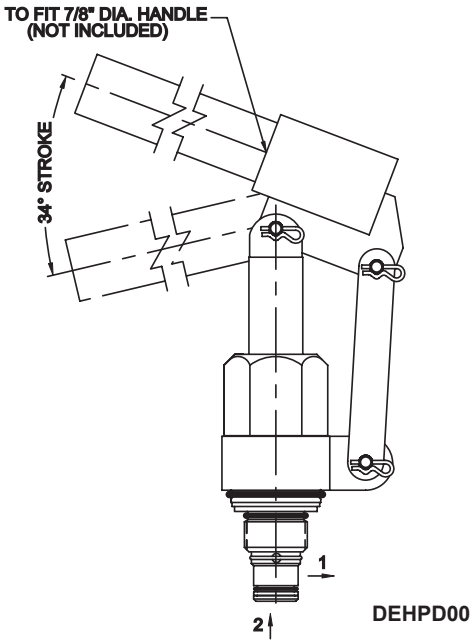

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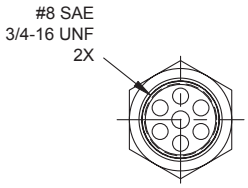
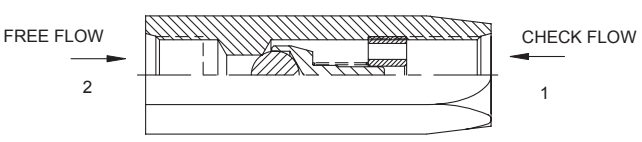




IMCVA00

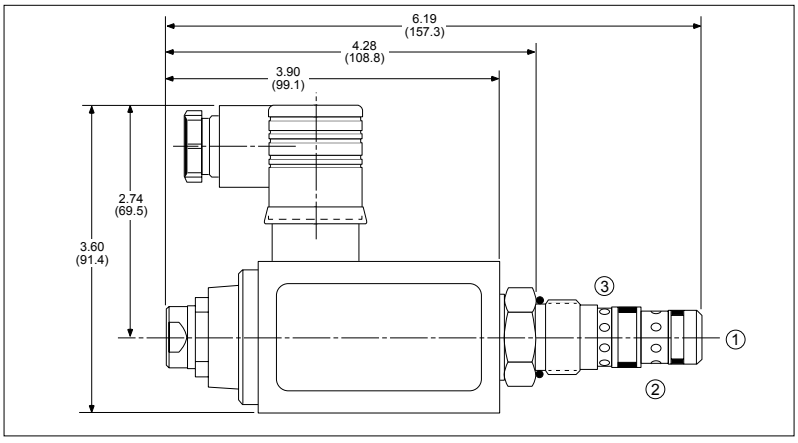
Proportional Cartridge Valves

Direct Operated Flow Control

Stock No.	Description	Current	Voltage	Cavity	Max. Flow	Max. Pressure	List Price
EF10CD16GD12L	Proportional Flow Control	2.2 Amp	12V DC	C10-3	16 LPM	240 BAR	$ 672.00
EF10CD16GD24L	Proportional Flow Control	1.1 Amp	24V DC	C10-3	16 LPM	240 BAR	$ 672.00
EF10CD28GD12L	Proportional Flow Control	2.2 Amp	12V DC	C10-3	28 LPM	240 BAR	$ 672.00
EF10CD28GD24L	Proportional Flow Control	1.1 Amp	24V DC	C10-3	28 LPM	240 BAR	$ 672.00

EF10C DIMENSIONS

Dimensions shown in: Inches (millimeters)



TYPICAL PERFORMANCE SPECIFICATIONS*

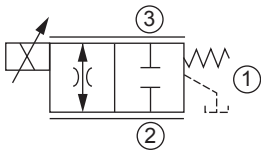
MOUNTING SURFACE		C10-3 Cavity In-Line Body	
FLOW CAPACITY @ 145 psi (10 bar) (Full Loop)	Code 16	4.3 gpm	16.2 lpm
	Code 28	7.5 gpm	28.4 lpm
MAXIMUM OPERATING PRESSURE	Ports 2 and 3	3500 psi	241 bar
	(Drain) Port 1 **	3000 psi	207 bar
TYPICAL RESPONSE TIME † (Nominal)	10 to 90% Spool Travel	25 ms	
	90 to 10% Spool Travel	45 ms	
	30 to 90% Spool Travel	20 ms	
	90 to 30% Spool Travel	30 ms	
SPOOL STROKE	Closed to open	1.20 in.	3.05 mm
HYSTERESIS	With Dither	< 6%	
THRESHOLD	With Dither	< 3%	
REPEATABILITY	With Dither	< 3%	
DEADBAND		16% nominal of spool travel	
VOLTAGE (Nominal)	Code 12	12 VDC	
	Code 24	24 VDC	
CURRENT (Maximum)	Code 12	2.2 Amp	
	Code 24	1.1 Amp	
WATTAGE (I^2 R) @ 76° F. (24° C.) (Continuous)	Code 12	19	
	Code 24	19	
COIL RESISTANCE @ 68° F. (20° C.)	Code 12	3.8 Ohms	
	Code 24	15.2 Ohms	
DUTY CYCLE		Continuous @ rated specifications	
FLUID VISCOSITY	Operating	80-350 SUS	
	Maximum	30-4000 SUS	
FLUID CLEANLINESS LEVEL		ISO 4406 Code 16/13 (SAE Class 4) or cleaner	
MOUNTING		Unrestricted	
WEIGHT (Cartridge Only)		2.4 lbs.	1.1 kg

***NOTE:** Data taken with fluid temperature at 120°F. (49°C.) and viscosity at 100 SUS (20.6 Cs), inlet pressure @ 1000 psi (69 bar) using Continental Hydraulics ECM4 electronic controller.

****NOTE:** Drain port must be used for pressures above 3000 psi (207 bar) including pressure spikes. This may be plugged on systems with pressure less than 3000 psi (207 bar).

†NOTE: Response times are effected by pressure, viscosity and flow rate.

EF10C SCHEMATIC

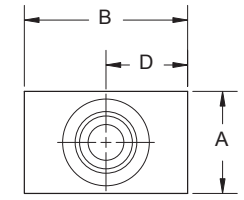
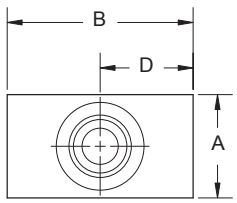
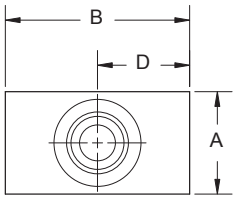
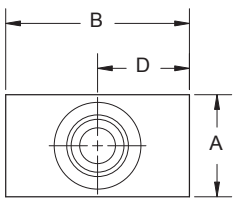
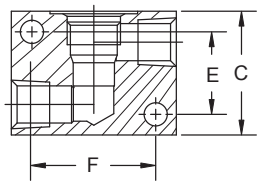
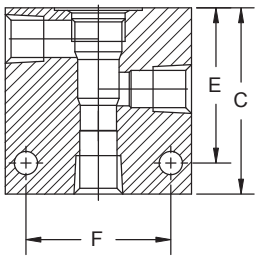
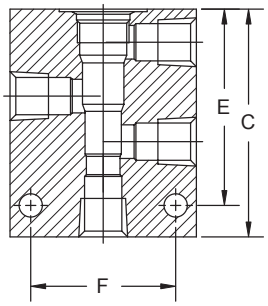
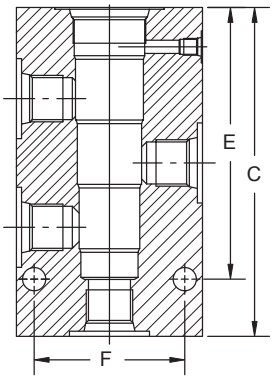
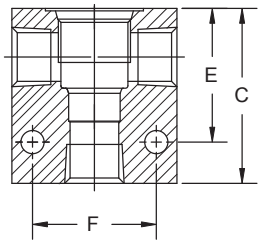
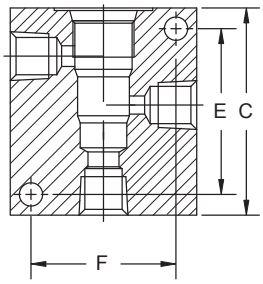
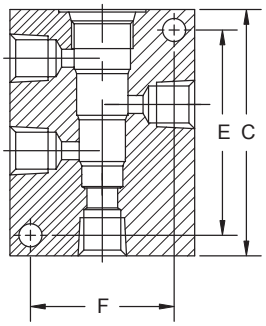
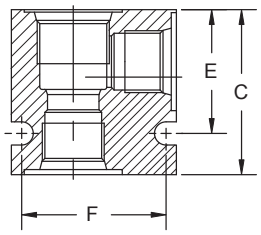
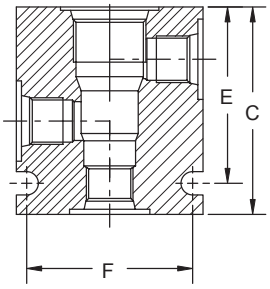
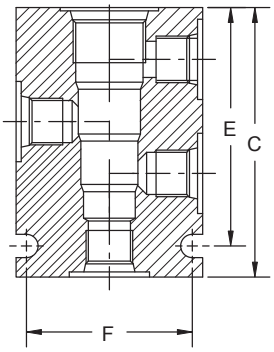
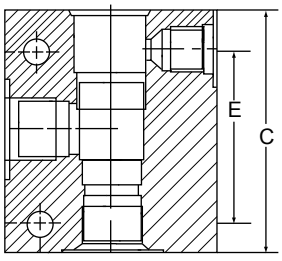


1800-OILSOL
1800-645765
https://oilsolutions.com.au/
sales@oilsolutions.com.au
OIL SOLUTIONS

Manifolds

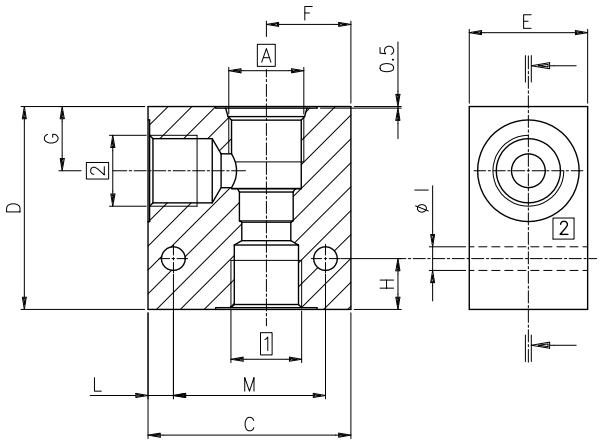
Stock No.	Description	Series	Cavity	Ports	Dimensions mm						List Price
					A	B	C	D	E	F	
AN	2 Way Aluminium	Mini	5/8-18 2 Way	1/4” NPT	32	51	38	25.4	25.4	38.1	$ 52.00
AS	2 Way Aluminium	Mini	5/8-18 2 Way	9/16” UNO	32	51	38	25.4	25.4	38.1	$ 52.00
CN	3 Way Aluminium	Mini	5/8-18 3 Way	1/4” NPT	32	51	57	25.4	47.6	38.1	$ 73.00
CS	3 Way Aluminium	Mini	5/8-18 3 Way	9/16” UNO	32	63	57	31.7	47.6	51	$ 73.00
DN	4 Way Aluminium	Mini	5/8-18 4 Way	1/4” NPT	32	51	70	25.4	60.3	38.1	$ 99.00
DS	4 Way Aluminium	Mini	5/8-18 4 Way	9/16” UNO	32	51	70	28.4	60.3	38.1	$ 99.00
BN	2 Way Aluminium	Power	3/4-16 2 Way	1/4” NPT	32	51	51	25.4	38	38.1	$ 54.00
BS	2 Way Aluminium	Power	3/4-16 2 Way	9/16” UNO	32	51	51	28.4	38	38.1	$ 54.00
PN	3 Way Aluminium	Power	3/4-16 3 Way	1/4” NPT	32	57	63	28.4	51	44	$ 73.00
PS	3 Way Aluminium	Power	3/4-16 3 Way	9/16” UNO	32	57	63	28.4	51	44	$ 73.00
QN	4 Way Aluminium	Power	3/4-16 4 Way	1/4” NPT	32	57	76	28.4	63.5	44	$ 90.00
QS	4 Way Aluminium	Power	3/4-16 4 Way	9/16” UNO	32	57	76	28.4	63.5	44	$ 90.00
EN	2 Way Aluminium	Delta	7/8-14 2 Way	3/8” NPT	38	51	54	25.4	41.2	38.1	$ 52.00
ES	2 Way Aluminium	Delta	7/8-14 2 Way	3/4” UNO	38	51	51	28.4	41	44	$ 52.00
FN	3 Way Aluminium	Delta	7/8-14 3 Way	1/4” NPT	38	51	63	25.4	51	38.1	$ 75.00
FS	3 Way Aluminium	Delta	7/8-14 3 Way	9/16” UNO	38	63	63	31.7	54	57	$ 75.00
GN	4 Way Aluminium	Delta	7/8-14 4 Way	1/4” NPT	38	51	83	25.4	54	38.1	$ 101.00
GS	4 Way Aluminium	Delta	7/8-14 4 Way	9/16” UNO	38	63	83	31.7	73	57	$ 101.00
GS8	4 Way Aluminium	Delta	7/8-14 4 Way	3/4” UNO	38	63	83	31.7	73	57	$ 101.00
TS	2 Way Steel	Tecnord	1-1/16-12 2 Way	1-1/16” UNO	45	70	79	43	57.5	56	$ 184.00
US	3 Way Aluminium	Tecnord	1-1/16-12 3 Way	7/8” UNO	45	76	98	38	51	58	$ 199.00
RS	3 Way Aluminium	Tecnord	1-1/16-12 3 Way S	7/8” UNO	51	76	83	38	69	60	$ 128.00
VS	4 Way Aluminium	Tecnord	1-1/16-12 4 Way	7/8” UNO	45	76	121	38	76.2	58	$ 231.00
JN	2 Way Aluminium	Super	1-5/16-12 2 Way	3/4” NPT	51	76	76	47.6	57	62	$ 101.00
JS	2 Way Aluminium	Super	1-5/16-12 2 Way	1-1/16” UNO	51	76	76	47.6	57	62	$ 101.00
KS	3 Way Aluminium	Super	1-5/16-12 3 Way	1-1/16” UNO	51	101	101	51	79	86	$ 180.00
LS	3 Way Aluminium	Super	1-5/16-12 3 Way S	1-1/16” UNO	51	89	89	47.6	69	73	$ 180.00
NS	4 Way Aluminium	Super	1-5/16-12 4 Way	1-1/16” UNO	51	101	133	51	108	86	$ 198.00
OS	5 Way Aluminium	Super	1-5/16-12 5 Way	1-1/16” UNO	51	101	133	51	121	86	$ 233.00
30102240 3 Way Aluminium		Sun	M20x 1.5	1/2” NPT Work 1/4” NPT Pilot	32	63	76	31	54	-	$ 99.00

Standard Bodies

			
 **AN - AS - BN - BS**	 **LS - RS - CN - CS - KS**	 **DN - DS - NS**	 **OS**
 **EN**	 **PN - PS - FN - US**	 **QN - QS - GN - VS**	
 **ES - JN - JS - TS**	 **FS**	 **GS**	 **30102240**

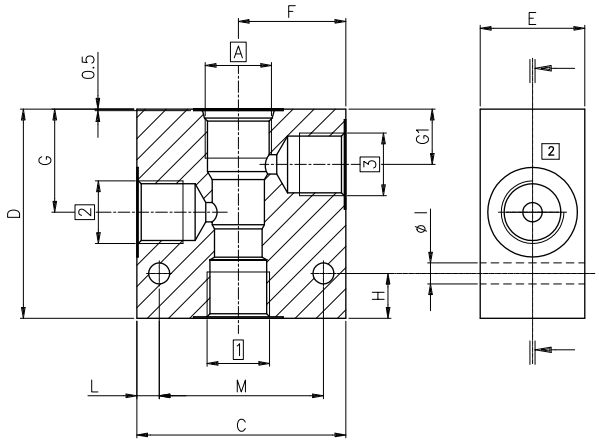
Manifolds

Stock No.	Description	Series	Cavity	Port Size	List Price
EAD082038	2 Way Aluminium	Power	3/4-16 2 Way	G 3/8	$ 66.00
EAD102012	2 Way Aluminium	Delta	7/8-14 2 Way	G 1/2	$ 77.00
EAD122034	2 Way Aluminium	Tecnord	1-1/16-12 2 Way	G 3/4	$ 117.00
EAD162010	2 Way Aluminium	Super	1-5/16-12 2 Way	G 1	$ 117.00



Part No.	1 - 2	C	D	E	F	G	H	I	L	M	Weight Kg
EAD082038	3/8" G	49	50	30	20	13.5	12	6	9	35	0.2
EAD102018	1/2" G	59	60	40	24	19	15	7	7.5	45	0.4
EAD122034	3/4" G	79	80	50	34	26	18	9	10	60	0.8
EAD162010	1" G	88	85	50	34	25	32	9	10	67	0.8

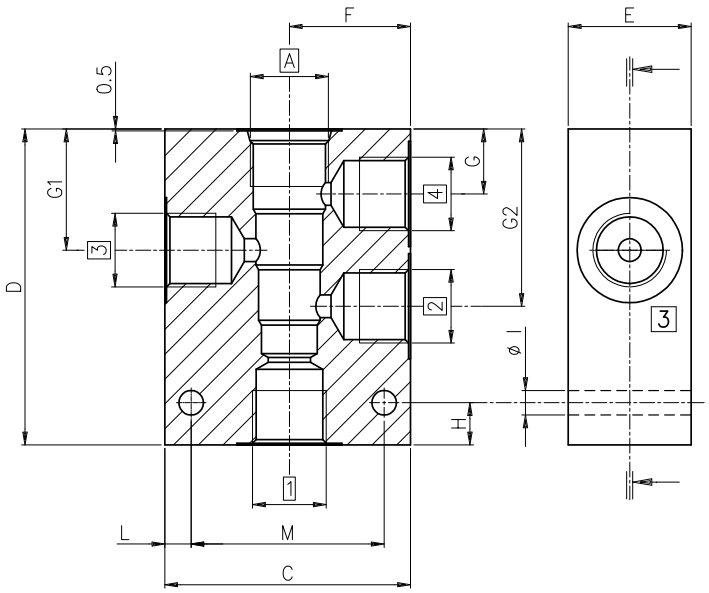
Stock No.	Description	Series	Cavity	Port Size	List Price
EAD083038	3 Way Aluminium	Power	3/4-16 3 Way	G 3/8	$ 79.00
EAD103012	3 Way Aluminium	Delta	7/8-14 3 Way	G 1/2	$ 90.00
EAD123034	3 Way Aluminium	Tecnord	1-1/16-12 3 Way	G 3/4	$ 126.00
EAD163010	3 Way Aluminium	Super	1-5/16-12 3 Way	G 1	$ 147.00



Part No.	1 - 2	3	C	D	E	F	G	G1	H	I	L	M	Weight Kg
EAD083038	3/8" G	3/8" G	59	65	30	30	29.5	15	15	7	7.5	44	0.6
EAD103018	1/2" G	1/2" G	69	75	40	35.5	34.5	18.5	15	7	7.5	54	0.5
EAD123034	3/4" G	3/4" G	79	100	40	40	53.5	28.5	18	9	10	59	0.9
EAD163010	1" G	1" G	98	110	50	49.5	54	25.5	28	9	12	74	1.5

Manifolds

Stock No.	Description	Series	Cavity	Port Size	List Price
EAD084038	4 Way Aluminium	Power	3/4-16 4 Way	G 3/8	$ 89.00
EAD104012	4 Way Aluminium	Delta	7/8-14 4 Way	G 1/2	$ 105.00
EAD124034	4 Way Aluminium	Tecnord	1-1/16-12 4 Way	G 3/4	$ 169.00
EAD164010	4 Way Aluminium	Super	1-5/16-12 4 Way	G 1	$ 201.00



Part No.	1 - 2 3 - 4	C	D	E	F	G	G1	G2	H	I	L	M	Weight Kg
EAD084038	3/8" G	59	80	30	30	15	29.5	43.5	12	7	7.5	44	0.4
EAD104018	1/2" G	69	90	40	35	18.5	34	50	12	7	7.5	54	0.6
EAD124034	3/4" G	79	125	40	40	28.5	53.5	78	20	9	10	59	1.3
EAD164010	1" G	98	140	50	49.5	25	54	82	20	9	11	77	1.8

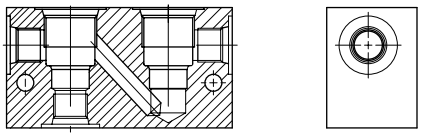
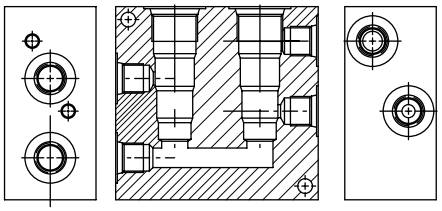
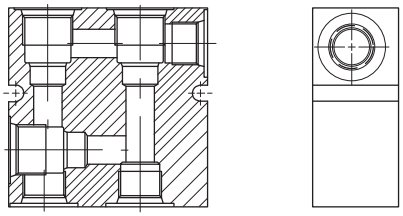
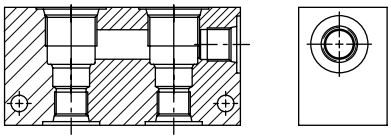
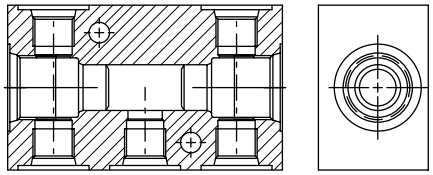
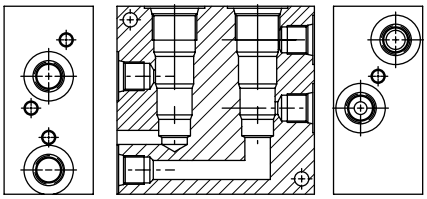
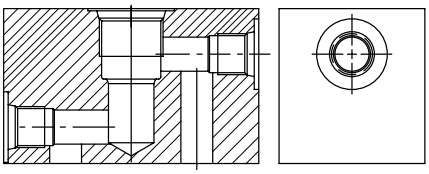
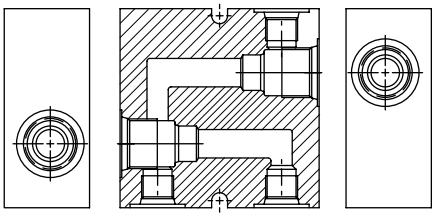
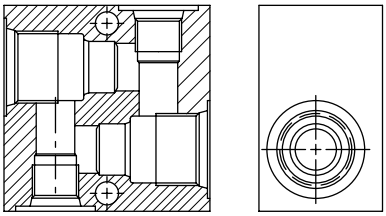
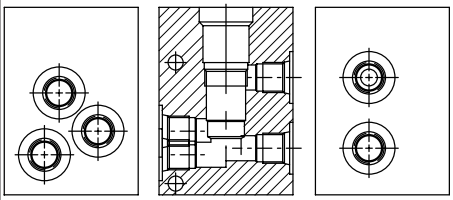
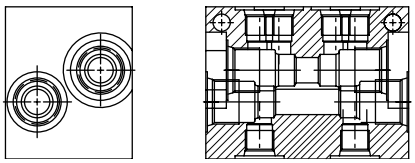
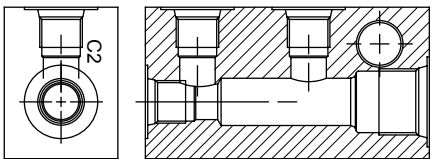
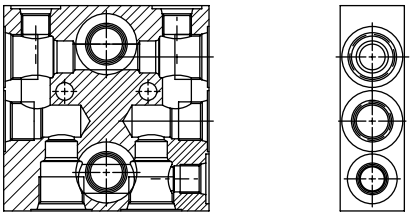
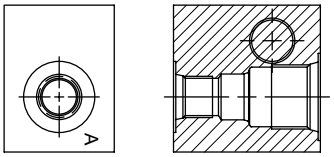
Delta Bodies

Pre-Engineered 'Miser' Circuit Blocks

Stock No.	Port Size	Block	Applications	No. of Ports	No. of Cavities	List Price
20200001	9/16" UNO	A	Load Holding Solenoid Valve Relief Valve with Adjustable Pressure Compensated Flow Control Relief Valve with Fixed Pressure Compensated Flow Control Unloading with Flow Control Lift Circuit with Relief Relief Valve with Flow Control Unloading with Fixed Pressure Compensated Flow Control Speed Control	3	2	$ 87.00
20200002	3/4" UNO	B	Lift, Check and Dump Valve Start Up Circuit	3	3	$ 115.00
20200003	9/16" UNO	C	Dual Relief Valve Dump Flow Divider Motor Speed Control Selector Hydrostatic (Anti-cav)	5	2	$ 98.00
20200004	9/16" UNO	D	Normally Closed Poppet Valve Single Relief Valve Needle Flow Control Flow Control with Free Flow Check Normally Open Spool Valve Cross Over Relief Valve	2	1	$ 98.00
20200005	9/16" UNO	E	Dual Speed Circuit Pressure Compensated Flow Control and Check Valve	2	2	$ 77.00
20200006	9/16" UNO	F	Dual Sequence Valve	6	4	$ 216.00
20200007	3/4" UNO	G	Rectifier Circuit	4	4	$ 147.00
20200008	9/16" UNO	H	4 Way 3 Position Open Centre Valve 4 Way 3 Position Closed Centre Valve	4	2	$ 128.00
20200009	9/16" UNO	I	3 Way Directional Control Manual Lift, Check and Dump Normally Closed Valve with Relief Lift, Check and Dump Pump, Check and Relief Needle Flow Control and Check Normally Open Valve with Relief	3	2	$ 81.00
20200010	9/16" UNO	J	4 Way 3 Position Tandem Centre Directional Control	4	2	$ 129.00
20200011	9/16" UNO	K	Solenoid Operated Circuit Selector Solenoid Operated On/Off Flow Regulator	3	2	$ 129.00
20200012	9/16" UNO	L	Dual Counterbalance Valve	4	2	$ 176.00
20200013	9/16" UNO	M	Single Pilot Operated Check Valve (Banjo Bolt Mounting)	4	1	$ 128.00
20200014	9/16" UNO	N	Velocity Fuse Normally Closed 2 Way Valve Flow Control Needle Valve Normally Open 2 Way Valve	2	1	$ 100.00
20200015	9/16" UNO	O	Single Counterbalance Valve (Banjo Bolt Mounting)	4	1	$ 139.00
20200017	9/16" UNO	P	Lift Circuit with Needle Valve and Relief Valve Lift Circuit with Pressure Compensated Flow and Relief Valve	3	4	$ 184.00
20200018	3/4" UNO	Q	Dual Circuit Solenoid Operated Selector Valve	6	2	$ 320.00
20200019	3/4" UNO	R	Relief Valve with Through 'P' Port	4	1	$ 121.00
20200020	3/4" UNO	S	Cross Over Relief Valve Mower Breakaway Valve Unloading and Relief Valve	4	2	$ 169.00

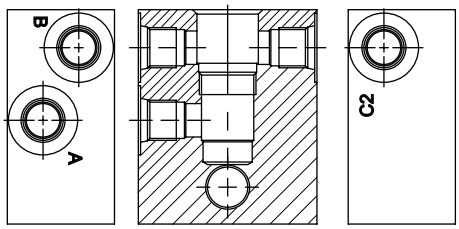
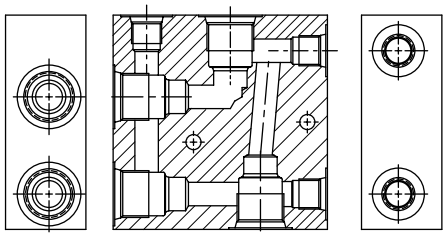
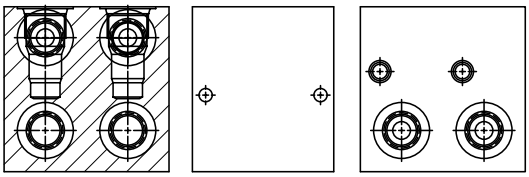
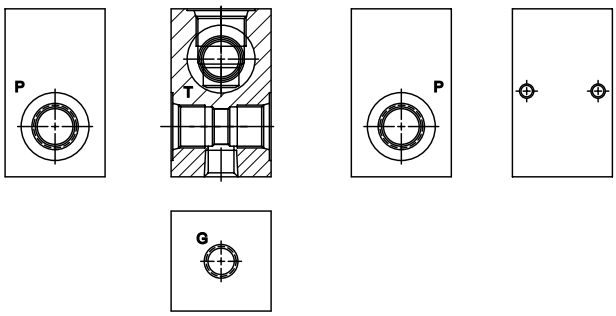
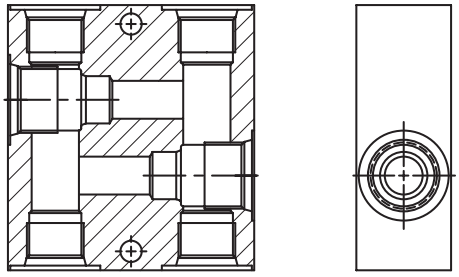
Delta Bodies

Pre-Engineered 'Miser' Circuit Blocks

Stock No.	Block	Drawing	Stock No.	Block	Drawing
20200001	A		20200008	H	
20200002	B		20200009	I	
20200003	C		20200010	J	
2020004	D		20200011	K	
20200005	E		20200012	L	
20200006	F		20200013	M	
20200007	G		20200014	N	

Delta Bodies

Pre-Engineered 'Miser' Circuit Blocks

Stock No.	Block	Drawing
20200015	O	
20200017	P	
20200018	Q	
20200019	R	
20200020	S	

DC Motor Driven Flow Control Valves

Stock No.	Description	Gearbox Ratio	Voltage	Body	Max. Flow	Max. Pressure	List Price
141602003	SK-FCQ-RH158/250-T050-12VDC	250:1	12 VDC	KS/KN	100 LPM	250 BAR	$ 1016.00
141602006	SK-FCQ-RH158/250-T050-24VDC	250:1	24 VDC	KS/KN	100 LPM	250 BAR	$ 1016.00

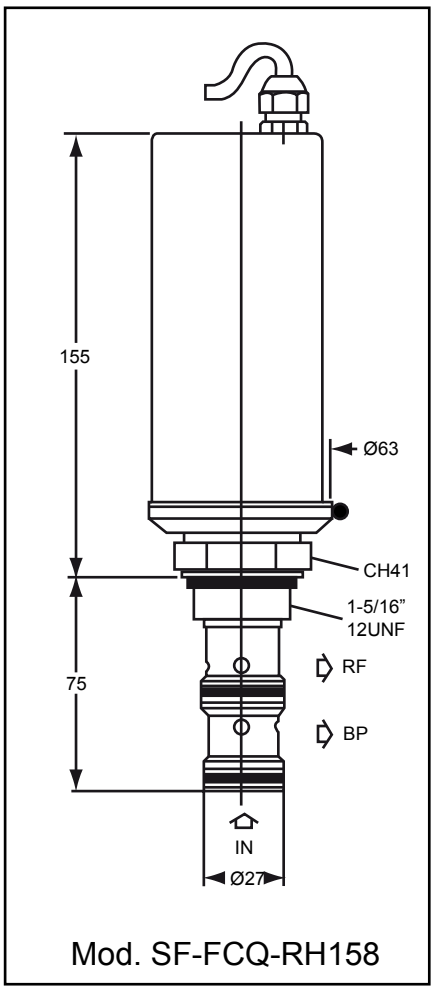
Description:

Motor driven pressure compensated priority type flow regulator.

Operation:

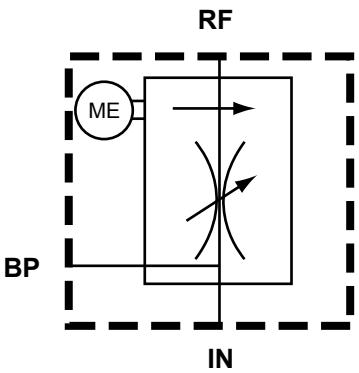
This unit is a pressure compensated, priority type flow regulating valve, fully adjustable by means of a DC electro-mechanical rotary actuator connected to the control mechanism.

This valve provides a constant flow to a circuit when the input flow is greater than required. After priority flow is satisfied, then the excess flow is bypassed to the secondary circuit or to tank.

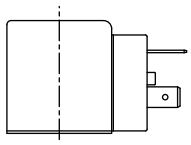
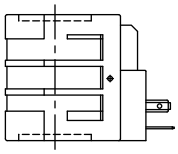
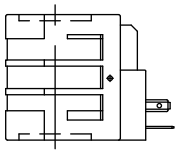
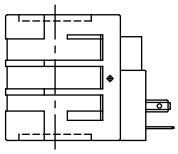
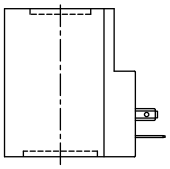


Mod. SF-FCQ-RH158

Mechanical Specifications	
Maximum input flow	30 gpm
Flow control range	0 to 25 gpm
Maximum working pressure	4000 psi
Leakage at fully closed position	5 cu.in/min
Operating fluid temperature range	-40°F to 240°F
Recommended filtration	40 micron
Electrical Specifications	
Power source	12 or 24 VDC (specify)
Current draw	300ma (@ 12 VDC) 150ma (@ 24 VDC)
Response time	25 sec (min/max) approx.
Electrical limit switch on FULLY CLOSED position	Fixed
Electrical limit switch on FULLY OPEN position	Adjustable
Environmental protection	IP65 (equiv. to NEMA 12/13)



Continuous Duty Coils

Drawing	Stock No.	Voltage	Description	Series	List Price
	MHC11	110 VAC	Coil 110 VAC 1.7 Amp	Mini	$ 66.00
	MHC12	12 VDC	Coil 12 VDC 1.7 Amp	Mini	$ 37.00
	MHC22	240 VAC	Coil 240 VAC 0.1 Amp	Mini	$ 66.00
	MHC24	24 VDC	Coil 24 VDC 0.86 Amp	Mini	$ 37.00
	PHC11	110 VAC	Coil 110 VAC 0.19 Amp	Power	$ 100.00
	PHC12	12 VDC	Coil 12 VDC 1.6 Amp	Power	$ 50.00
	PHC22	240 VAC	Coil 240 VAC 0.10 Amp	Power	$ 66.00
	PHC24	24 VDC	Coil 24 VDC 0.78 Amp	Power	$ 50.00
	PHC25	24 VAC	Coil 24 VAC 0.92 Amp	Power	$ 100.00
	DHC11	110 VAC	Coil 110 VAC 0.23 Amp	Delta / Super	$ 100.00
	DHC12	12 VDC	Coil 12 VDC 1.8 Amp	Delta / Super	$ 50.00
	DHC22	240 VAC	Coil 240 VAC 0.11 Amp	Delta / Super	$ 100.00
	DHC23	250 VAC	Coil 250 VAC 0.10 Amp	Delta / Super	$ 100.00
	DHC24	24 VDC	Coil 24 VDC 0.90 Amp	Delta / Super	$ 50.00
	DHC25	24 VAC	Coil 24 VAC 1.2 Amp	Delta / Super	$ 100.00
	DHC36	36 VDC	Coil 36 VDC 0.62 Amp	Delta / Super	$ 100.00
	DHC48	48 VDC	Coil 48 VDC 0.47 Amp	Delta / Super	$ 100.00
	LHC12	12 VDC	Coil 12 VDC 1.8 Amp	Delta 4W3P	$ 52.00
	LHC22	240 VAC	Coil 240 VAC 0.08 Amp	Delta 4W3P	$ 93.00
	LHC24	24 VDC	Coil 24 VDC 0.90 Amp	Delta 4W3P	$ 52.00
	THC11	110 VAC	Coil 110 VAC 0.31 Amp	Tecnord	$ 75.00
	THC12	12 VDC	Coil 12 VDC 2.33 Amp	Tecnord	$ 54.00
	THC22	240 VAC	Coil 240 VAC 0.15 Amp	Tecnord	$ 81.00
	THC24	24 VDC	Coil 24 VDC 1.17 Amp	Tecnord	$ 54.00

DIN Electrical Connectors

Stock No.	Description	List Price
18209N	Standard Connector - Black	$ 5.00
18209G	Standard Connector - Grey	$ 5.00
32200010	Standard Connector - Miniature	$ 13.00
182L0912VDC	Connector with LED Light - 12VDC	$ 19.00
182L0924VDC	Connector with LED Light - 24VDC	$ 19.00
182L09110VAC	Connector with LED Light - 110VAC	$ 19.00
182L09220VAC	Connector with LED Light - 220VAC	$ 19.00
11209NGIRAD	Rectified Connector - Black	$ 43.00
11209GGIRAD	Rectified Connector - Grey	$ 43.00

Notes

Section 4

Oil Control Cartridge Valves

MAKE	MODEL	PAGE
Oil Control	Relief Valves	4.02
Oil Control	Relief Valves	4.03
Oil Control	Relief Valves	4.04
Oil Control	Relief Valves	4.05
Oil Control	Relief Valves	4.06
Oil Control	Relief Valves	4.07
Oil Control	Sequence Valves	4.08
Oil Control	Sequence Valves	4.09
Oil Control	Sequence Valves	4.10
Oil Control	Check Valves	4.11
Oil Control	Check Valves	4.12
Oil Control	Check Valves	4.13
Oil Control	Check Valves	4.14
Oil Control	Overcentre & Motion Control Valves	4.15
Oil Control	Overcentre & Motion Control Valves	4.16
Oil Control	Overcentre & Motion Control Valves	4.17
Oil Control	Overcentre & Motion Control Valves	4.18
Oil Control	Overcentre & Motion Control Valves	4.19
Oil Control	Overcentre & Motion Control Valves	4.20
Oil Control	Overcentre & Motion Control Valves	4.21
Oil Control	Overcentre & Motion Control Valves	4.22
Oil Control	Overcentre & Motion Control Valves	4.23
Oil Control	Overcentre & Motion Control Valves	4.24
Oil Control	Special Application Valves	4.25
Oil Control	Special Application Valves	4.26
Oil Control	Flow Control Valves	4.27
Oil Control	Flow Control Valves	4.28
Oil Control	Flow Control Valves	4.29
Oil Control	Flow Control Valves	4.30
Oil Control	Flow Control Valves	4.31
Oil Control	Flow Control Valves	4.32

MAKE	MODEL	PAGE

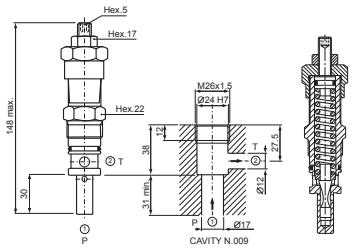
CROSS

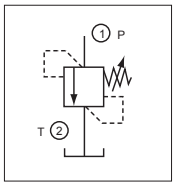
Oil Control

Relief Valves

Direct Acting Poppet Type

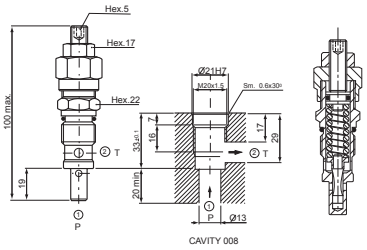
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.11.05.03.99.**	VS-80	80 LPM	250 BAR	Cartridge	$ 85.00

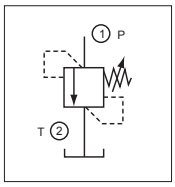




Technical Data	
Installation torque	83-92 Nm
Max. working pressure	250 bar
Flow max.	80 l/min
Weight	0.35 kg

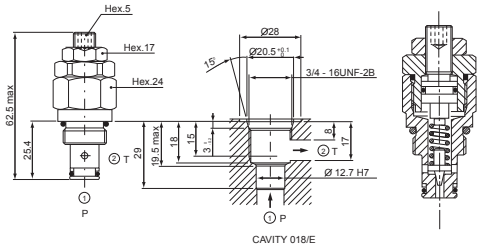
04.11.18.03.99.**	VS-30	30 LPM	350 BAR	Cartridge	$ 69.00

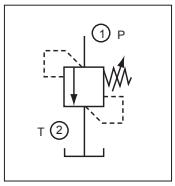




Technical Data	
Installation torque	46-51 Nm
Max. working pressure	350 bar
Flow max.	30 l/min
Weight	0.17 kg

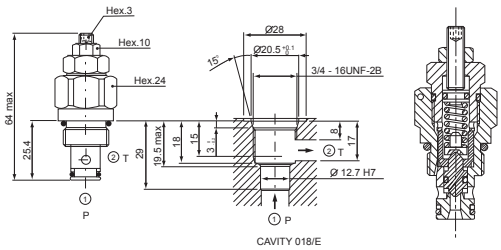
04.11.22.03.99.**	VS-10	3 LPM	350 BAR	Cartridge	$ 49.00

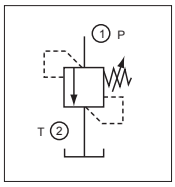




Technical Data	
Installation torque	50-59 Nm
Max. working pressure	350 bar
Flow max.	3 l/min
Weight	0.14 kg

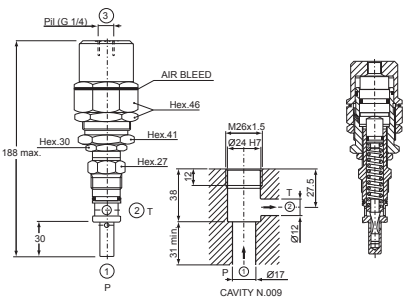
04.11.23.03.99.**	VS-20	20 LPM	350 BAR	Cartridge	$ 60.00

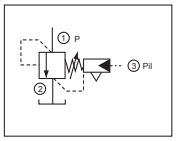




Technical Data	
Installation torque	50-59 Nm
Max. working pressure	350 bar
Flow max.	20 l/min
Weight	0.17 kg

04.11.33.03.99.**	VS-80-2S	80 LPM	300 BAR	Cartridge	$ 234.00





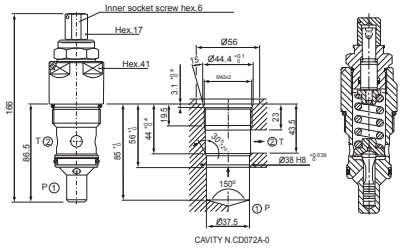
Technical Data	
Installation torque	83-92 Nm
Max. working pressure	300 bar
Max. pressure in “Pil’	30 bar
Flow max.	80 l/min
Weight	1.16 kg

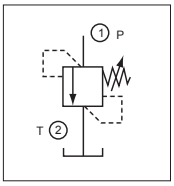
** Denotes pressure range.

Relief Valves

Direct Acting Poppet Type

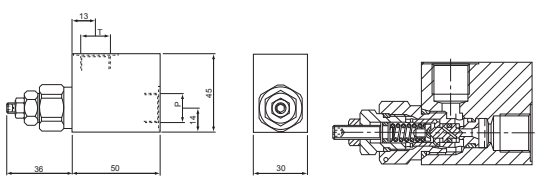
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.11.34.52.99.35	VS-42	200 LPM	350 BAR	Cartridge	$ 411.00

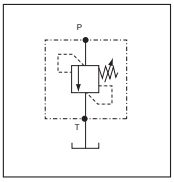




Technical Data	
With holes for wire locking	
Installation torque	246-272 Nm
Max. working pressure	350 bar
Flow max.	200 l/min
Weight	1 kg

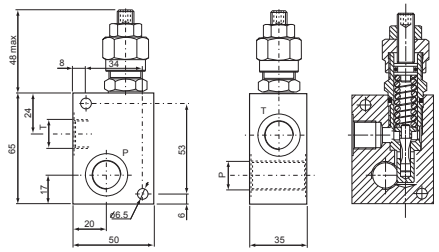
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.13.07.03.02.**	VSC-20	20 LPM	350 BAR	3/8”	$ 110.00

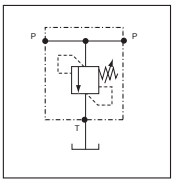




Technical Data	
Max. working pressure	350 bar
Flow max.	20 l/min
Weight	0.425 kg

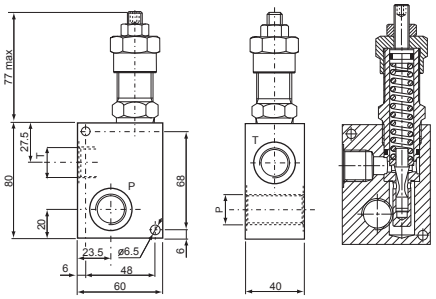
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.13.01.03.03.**	VSC-30	30 LPM	350 BAR	1/2”	$ 115.00
05.13.03.03.02.**				3/8”	$ 115.00
05.13.01.03.09.**				1/4”	$ 124.00

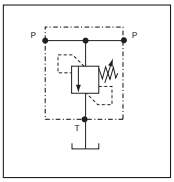




Technical Data	
Max. working pressure	350 bar
Flow max.	30 l/min
Weight	0.47 kg

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.13.02.03.03.**	VSC-80	80 LPM	250 BAR	1/2”	$ 175.00
05.13.02.03.04.**				3/4”	$ 175.00





Technical Data	
Max. working pressure	250 bar
Flow max.	80 l/min
Weight	0.75 kg

** Denotes pressure range.

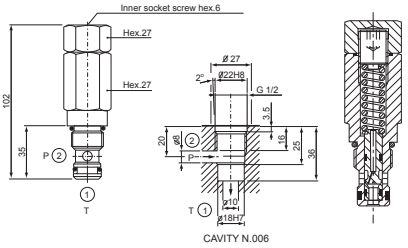
CROSS

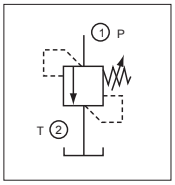
Oil Control

Relief Valves

Direct Acting, with Differential Piston Relief

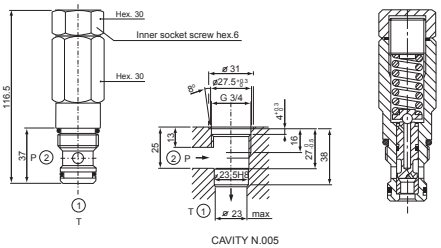
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.15.01.03.99.**	VSD-50	40 LPM	350 BAR	Cartridge	$ 114.00

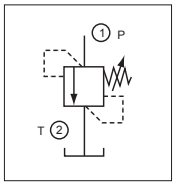




Technical Data	
Installation torque	96-108 Nm
Max. working pressure	350 bar
Flow max.	40 l/min
Weight	0.34 kg

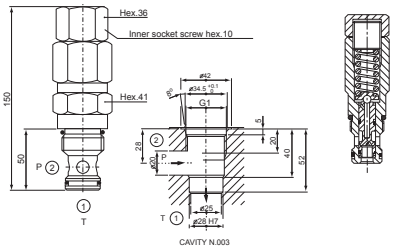
04.15.02.03.99.**	VSD-150	150 LPM	350 BAR	Cartridge	$ 129.00

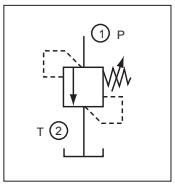




Technical Data	
Installation torque	150-162 Nm
Max. working pressure	350 bar
Flow max.	150 l/min
Weight	0.475 kg

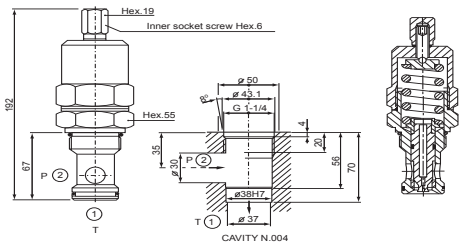
04.15.03.03.99.**	VSD-250	240 LPM	350 BAR	Cartridge	$ 183.00

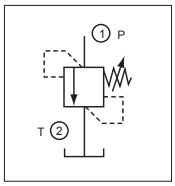




Technical Data	
Installation torque	208-234 Nm
Max. working pressure	350 bar
Flow max.	240 l/min
Weight	1 kg

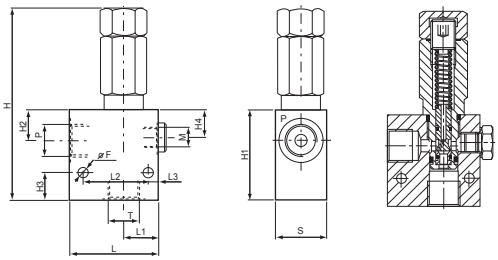
04.15.04.03.99.**	VSD-350	350 LPM	210 BAR	Cartridge	$ 406.00

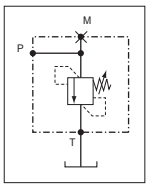




Technical Data	
Installation torque	245-265 Nm
Max. working pressure	210 bar
Flow max.	350 l/min
Weight	1.48 kg

05.12.01.03.02.**	VSDC-50	40 LPM	350 BAR	3/8”	$ 185.00
05.12.01.03.03.**				1/2”	$ 185.00





Technical Data	
Max. working pressure	350 bar
Flow see performance graph in catalogue.	

** Denotes pressure range.

S	L3	L2	L1	L	H4	H3	H2	H1	H	F	Y	Weight kg
35	8	44	30	60	18	18	20	59	126	6.5	1/2	0.62
35	7	44	23.5	60	20	8	20	49	116	6.5	3/8	0.58

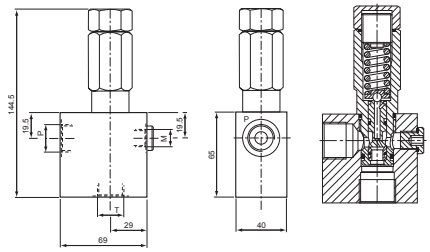
CROSS

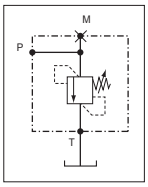
Oil Control

Relief Valves

Direct Acting, with Differential Piston Relief

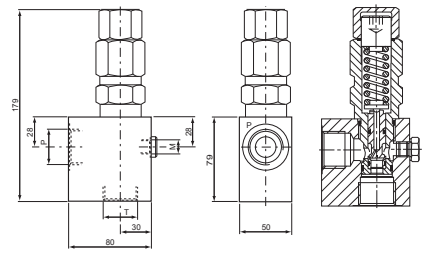
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.12.02.03.04.**	VSDC-150	150 LPM	350 BAR	3/4”	$ 228.00

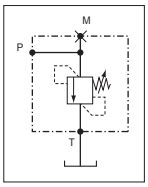




Technical Data	
Max. working pressure	350 bar
Flow max.	150 l/min
Weight	0.9 kg

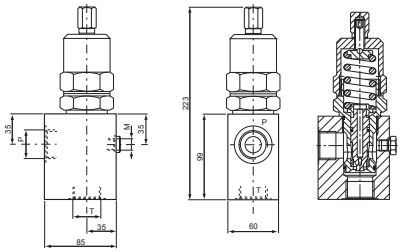
05.12.03.03.05.**	VSDC-250	240 LPM	350 BAR	1”	$ 335.00

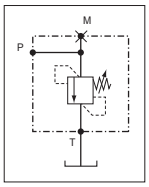




Technical Data	
Max. working pressure	350 bar
Flow max.	240 l/min
Weight	1.67 kg

05.12.04.03.05.**	VSDC-350	350 LPM	210 BAR	1”	$ 571.00
05.12.04.03.06.**	VSDC-350	350 LPM	210 BAR	1-1/4”	$ 593.00

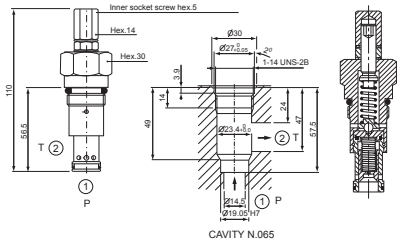


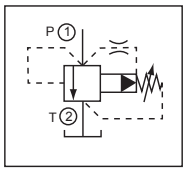


Technical Data	
Max. working pressure	210 bar
Flow max.	350 l/min
Weight	2.6 kg

Pilot Operated, Spool Type Relief

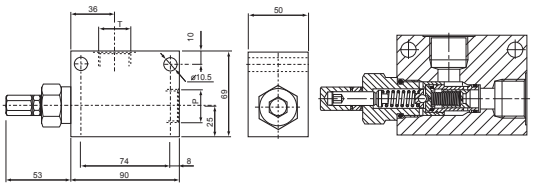
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.12.04.03.99.**	VSP-150	150 LPM	420 BAR	Cartridge	$ 162.00

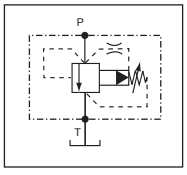




Technical Data	
Installation torque	121-133 Nm
Max. working pressure	420 bar
Flow max.	150 l/min
Weight	0.28 kg

05.11.05.03.03.**	VSPC-150	150	350	1/2”	$ 278.00
05.11.05.03.04.**				3/4”	$ 278.00
05.11.05.03.05.**				1”	$ 381.00





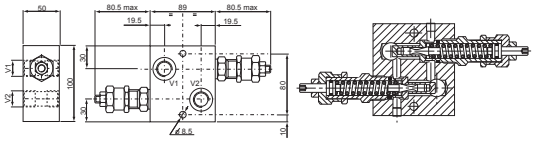
Technical Data	
*Max. working pressure	350 bar
Flow max.	150 l/min
Weight	0.9 kg

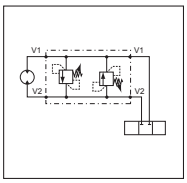
** Denotes pressure range.

Relief Valves

Dual Cross Over Relief

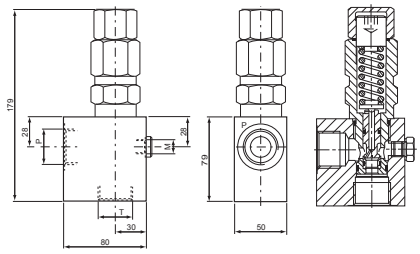
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.16.01.03.03.**	VSDI-80	80 LPM	250 BAR	1/2”	$ 261.00
05.16.01.03.04.**				3/4”	$ 261.00

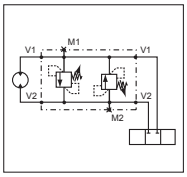




Technical Data	
Max. working pressure	250 bar
Flow max.	80 l/min
Weight	1.63 kg

05.16.03.03.03.**	VSDI-30	30	350	1/2”	1.21.01	$ 229.00

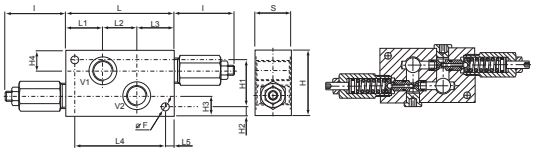


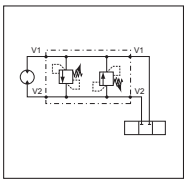


Technical Data	
Max. working pressure	350 bar
Flow max.	30 l/min
Weight	0.79 kg

Dual Cross Over, Differential Relief

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.15.01.03.03.**	VSD-DI	150 LPM	350 BAR	1/2”	$ 273.00
05.15.01.03.04.**				3/4”	$ 273.00
05.15.01.03.05.**				1”	$ 406.00



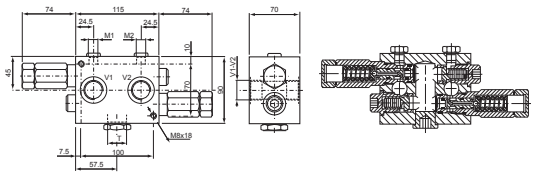


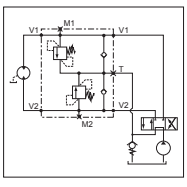
Technical Data	
Max. working pressure	350 bar
Flow see performance graph in catalogue.	

50	10	130	54.5	41	54.5	150	80	30.5	30.5	9.5	70	89	10.5	1	2
40	10	100	41	38	41	120	70	21.5	21.5	9.5	50	69	8.5	1/2	1.32
40	10	100	41	38	41	120	70	21.5	21.5	9.5	50	69	8.5	3/8	1.32
S	**L5**	**L4**	**L3**	**L2**	**L1**	**L**	**I**	**H4**	**H3**	**H2**	**H1**	**H**	**F**	**Y**	Weight kg

Dual Cross Over, Anti-Cavitation Relief

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.15.03.03.04.**	VSD-DI-VA-150	150 LPM	350 BAR	3/4”	$ 554.00





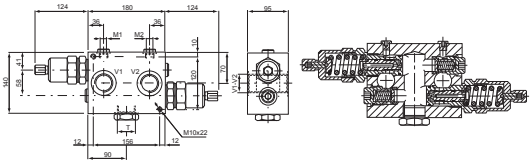
Technical Data	
Max. working pressure	350 bar
Flow max.	150 l/min
Weight	2.88 kg

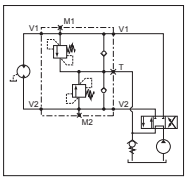
** Denotes pressure range.

Relief Valves

Dual Cross Over, Anti-Cavitation Relief

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.15.03.03.06.**	VSD-DI-VA-350	350 LPM	210 BAR	1-1/4”	$ 1312.00

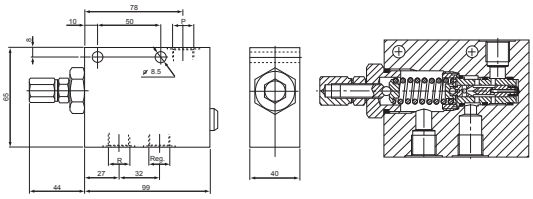


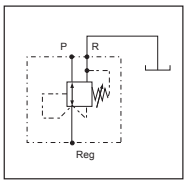


Technical Data	
Max. working pressure	210 bar
Flow max.	350 l/min
Weight	9.1 kg

Pressure Reducing with Relief Feature

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.90.27.03.02.**	VRP-R	20 LPM	210 BAR	3/8”	$ 341.00

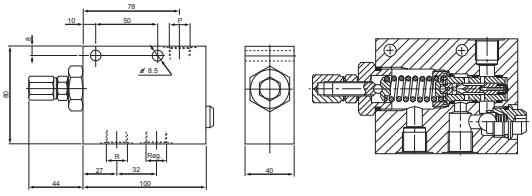


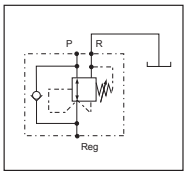


Technical Data	
Max. inlet pressure	210 bar
Max. regulated pressure	105 bar
Flow max.	20 l/min
Weight	1.00 kg

Pressure Reducing with Relief Feature and Free Flow Check

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.90.19.03.02.**	VRP-R-VU	20 LPM	210 BAR	3/8”	$ 389.00

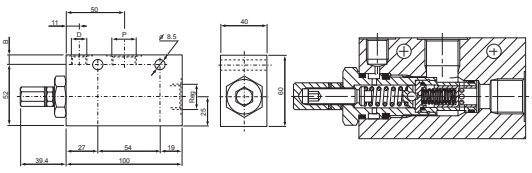


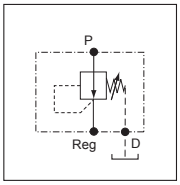


Technical Data	
Max. inlet pressure	210 bar
Max. regulated pressure	105 bar
Flow max.	20 l/min
Weight	1.00 kg

Pilot Operated Pressure Reducing

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.90.33.03.03.**	VRPC-150	120 LPM	250 BAR	1/2”	$ 311.00
05.90.33.03.04.**				3/4”	$ 311.00





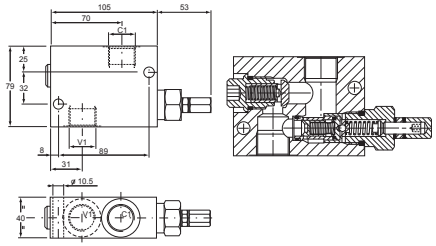
Technical Data	
Max. inlet pressure	250 bar
Max. regulated pressure	210 bar
Flow max.	120 l/min
Weight	0.95 kg

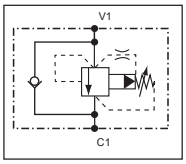
** Denotes pressure range.

Sequence Valves

Pilot Operated Spool Type Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.21.15.03.03.**	VSQP-150	150 LPM	350 BAR	1/2”	$ 384.00
05.21.15.03.04.**				3/4”	$ 388.00

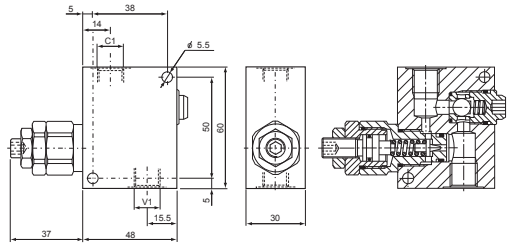


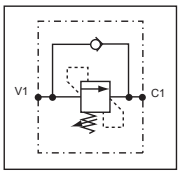


Technical Data	
Max. working pressure	350 bar
Flow max.	150 l/min
Weight	1.07 kg

Direct Sequence

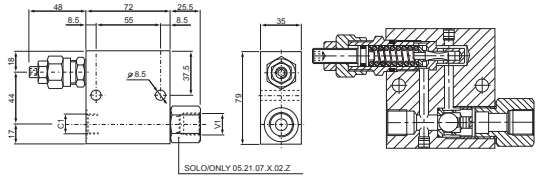
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.21.06.03.09.**	VSQ-10	10 LPM	350 BAR	1/4”	$ 145.00

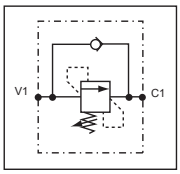




Technical Data	
Max. working pressure	350 bar
Flow max.	10 l/min
Weight	0.30 kg

Stock No.	Description	Max. Flow	Max. Pressure	Port Size		List Price
05.21.07.03.02.**	VSQ-30	30 LPM	350 BAR	3/8”	2.11.01	$ 158.00
05.21.07.03.03.**				1/2”		$ 158.00

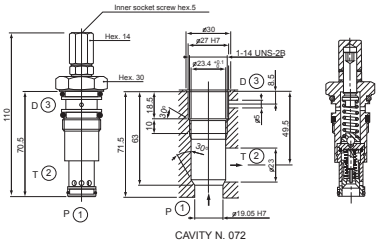


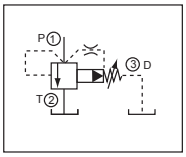


Technical Data	
Max. working pressure	350 bar
Flow max.	30 l/min
Weight	0.81 kg

Pilot Operated, Vented, Spool and Cartridge Type Relief

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.13.03.03.99.**	VSP-SD-150	150 LPM	210 BAR	Cartridge	$ 194.00





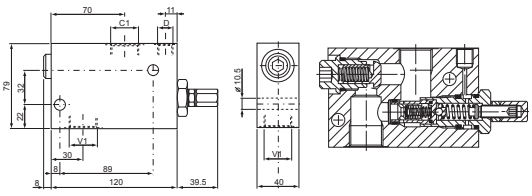
Technical Data	
Installation torque	121-133 Nm
Max. working pressure	210 bar
Flow max.	150 l/min
Weight	0.28 kg

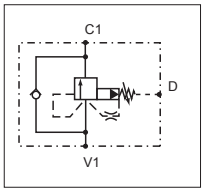
** Denotes pressure range.

Sequence Valves

Pilot Operated Spool Type Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.24.02.03.04.**	VSQP-SD-150	150 LPM	210 BAR	3/4”	$ 379.00

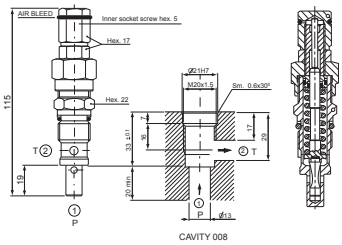


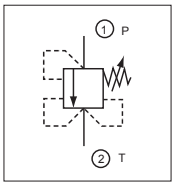


Technical Data	
Max. working pressure	210 bar
Flow max.	150 l/min
Weight	1.15 kg

Direct, Poppet Type, Self Compensated Relief

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.11.27.03.99.**	VS-30-CC	30 LPM	350 BAR	Cartridge	$ 142.00

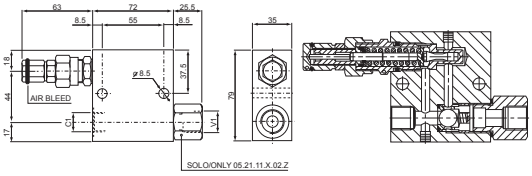


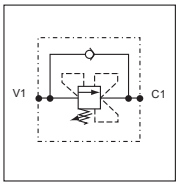


Technical Data	
Installation torque	46-51 Nm
Max. working pressure	350 bar
Flow max.	30 l/min
Weight	0.17 kg

Direct, Poppet Type, Self Compensated Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.21.11.03.03.**	VSQ-CC-30	30 LPM	350 BAR	1/2”	$ 264.00

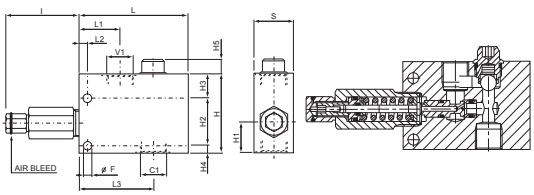


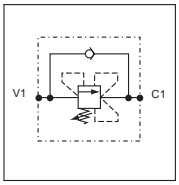


Technical Data	
Max. working pressure	350 bar
Flow max.	30 l/min
Weight	0.81 kg

Differential Piston Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.22.03.03.03.**	VSQD-CC	80 LPM	350 BAR	1/2”	$ 288.00
05.22.03.03.04.**				3/4”	$ 297.00





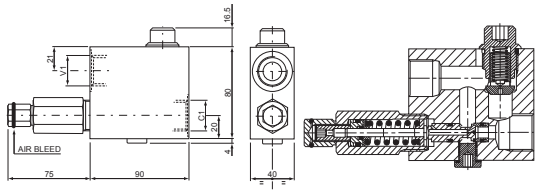
Technical Data	
Max. working pressure	350 bar
Flow max.	80 l/min

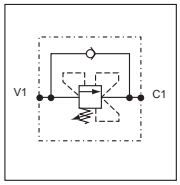
** Denotes pressure range.

Sequence Valves

Differential Piston Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.22.05.03.04.**	VSQD-CC-P	80 LPM	350 BAR	3/4”	$ 321.00

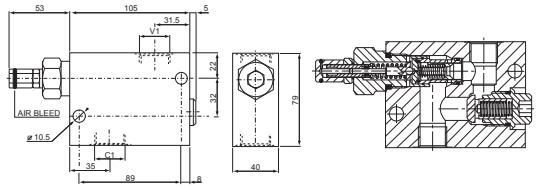


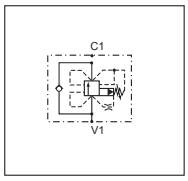


Technical Data	
Max. working pressure	350 bar
Flow max.	80 l/min
Weight	1.150 kg

Pilot Operated Spool Type, Self Compensated Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.24.06.03.03.**	VSQP-CC-150	150 LPM	210 BAR	1/2”	$ 453.00
05.24.06.03.04.**				3/4”	$ 453.00





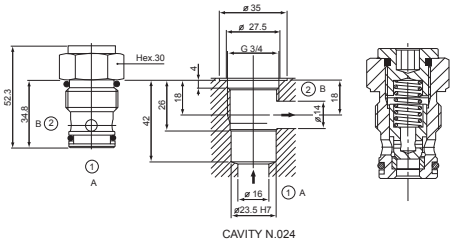
Technical Data	
Max. working pressure	210 bar
Flow max.	150 l/min
Weight	1.10 kg

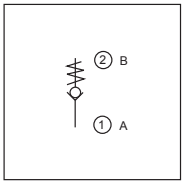
** Denotes pressure range.

Check Valves

Poppet and Cartridge Type Check

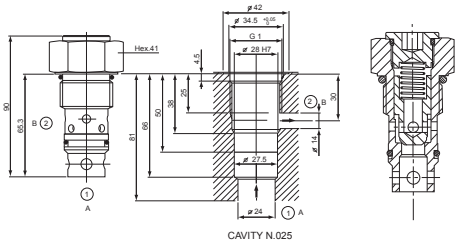
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.31.03.00.99.**	VU-12	60LPM	350 BAR	Cartridge	$ 54.00

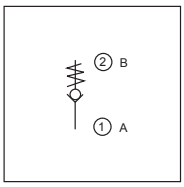




Technical Data	
Installation torque	145-158 Nm
Max. working pressure	350 bar
Flow max.	60 l/min
Weight	0.165 kg

Stock No.	Description	Max. Flow	Max. Pressure	Port Size		List Price
04.31.02.00.99.**	VU-34	100 LPM	350 BAR	Cartridge	3.12.03	$ 96.00

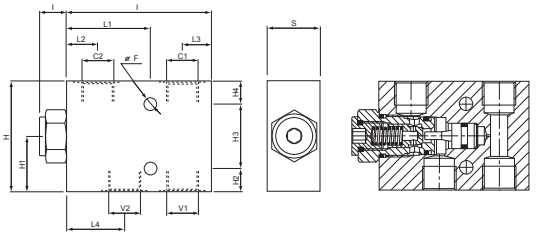


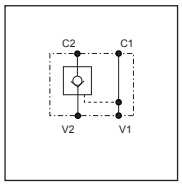


Technical Data	
Installation torque	167-191 Nm
Max. working pressure	350 bar
Flow max.	100 l/min
Weight	0.430 kg

Pilot Operated Check Valves

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.52.01.10.03.**	VSO-SE	50 LPM	350 BAR	1/2”	$ 147.00
05.52.01.10.04.**		100 LPM		3/4”	$ 275.00
05.52.01.10.97.**		30 LPM		3/8”	$ 146.00

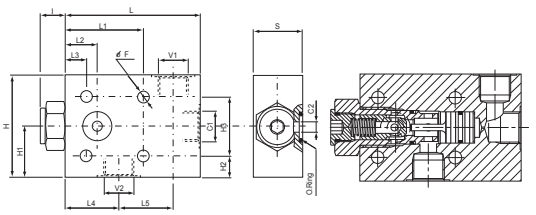


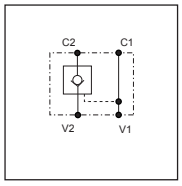


Technical Data	
WARNING: Pilot ratio 6:1 is also available for 1/2 size (X=25)	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

S	L4	L3	L2	L1	L	I	H4	H3	H2	H1	H	F		Y	Pilot Ratio	Weight kg
50	57.5	22	30	80	135	24.5	19.5	50	19.5	44.5	89	10.5		3/4	4:1	1.85
35	38	19	20.5	55	95	17.5	14.5	40	14.5	34.5	69	8.5		1/2	3.2:1	0.72
35	32	17	17	48	81	8.5	9.5	40	9.5	29.5	59	6.5		3/8	7:1	0.64

Stock No.	Description	Max. Flow	Max. Pressure	Port Size		List Price
05.52.02.10.03.**	VSO-SE-FCA	50 LPM	350 BAR	1/2”	4.12.02	$ 162.00





Technical Data	
WARNING: Pilot ratio 6:1 is also available for 1/2 size (X=25)	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

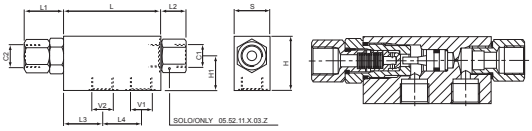
S	L5	L4	L3	L2	L1	L	I	H3	H2	H1	H	F	O.R. SIZE	Y	Pilot Ratio	Weight kg
34.5	38	38	15	22.5	55	95	17.5	40	14.5	34.5	69	8.5	15.34x2.62	1/2	3.2:1	0.71
34.5	32	32	13	17	48	81	8.5	40	9.5	29.5	59	6.5	9.19x2.62	3/8	7:1	0.64

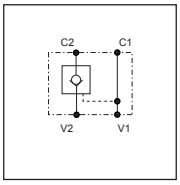
** Denotes pressure range.

Check Valves

Pilot Operated Check Valves

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.52.11.10.03.**	VSO-SE-DLN	50 LPM	350 BAR	1/2”	$ 141.00
05.52.11.10.09.**		20 LPM		1/4”	$ 147.00



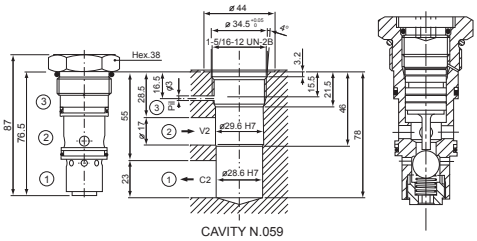


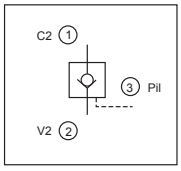
Technical Data	
WARNING: Pilot ratio 6:1 is also available for 1/2 size (X=25)	
Pilot ratio 9:1 is available for 1/4 size (X=37).	
Max. working pressure	350 bar
Flow see performance chart	

S	L4	L3	L2	L1	L	H1	H		Y	Pilot Ratio	Weight kg
35	38	38	25	38.5	95	32	50		1/2	3.2:1	0.49
35	38	20	-	36	80	30	50		3/8	4:1	0.47
35	35	20	-	33.5	70	24	40		1/4	4:1	0.39

Pilot Operated, Cartridge Type Check

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.33.01.10.99.**	VSO-SEC-150	90 LPM	350 BAR	Cartridge	$ 146.00

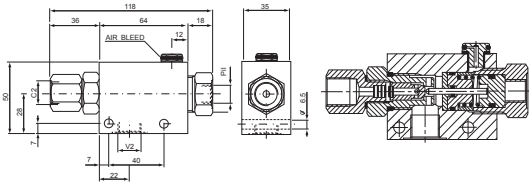


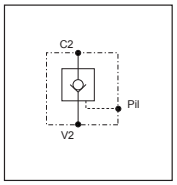


Technical Data	
Installation torque	142-155 Nm
Max. working pressure	350 bar
Flow max.	90 l/min
Pilot ration	4 : 1
Weight	0.375 kg

Pilot Operated, Vented Pilot Piston Check

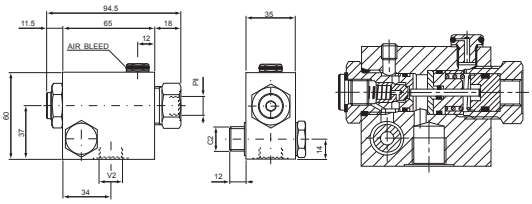
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.52.24.00.02.**	VSO-SE-PS	30 LPM	350 BAR	3/8”	$ 280.00

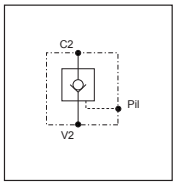




Technical Data	
WARNING: It is recommended to connect the air bleed port (G 1/8) to tank.	
Installation torque	41-49 Nm (max 90º)
Max. working pressure	350 bar
Flow max.	30 l/min
Pilot ratio	10 : 1
Weight	0.50 kg

05.52.22.00.02.**	VSO-SE-PS-FCV	30 LPM	350 BAR	3/8”	$ 297.00





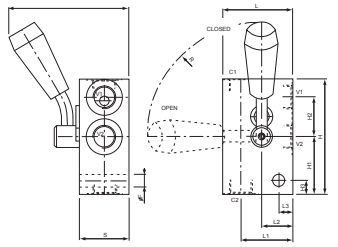
Technical Data	
WARNING: It is recommended to connect the air bleed port (G 1/8) to tank.	
Installation torque	41-49 Nm (max 90º)
Max. working pressure	350 bar
Flow max.	30 l/min
Pilot ratio	10 : 1
Weight	0.60 kg

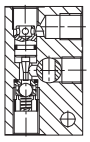
** Denotes pressure range.

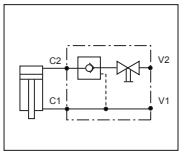
Check Valves

Pilot Operated Check with Manual Shut-Off

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.52.26.10.02.00	VSO-SE-DL-S	30 LPM	350 BAR	3/8”	$ 139.00
05.52.26.10.03.00		60 LPM		1/2”	$ 168.00







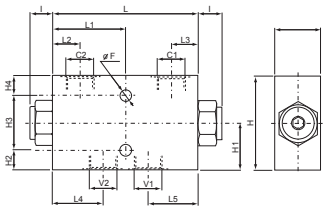
Technical Data

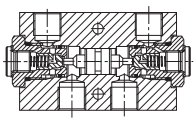
Max. working pressure	350 bar
Flow see performance graph in catalogue	

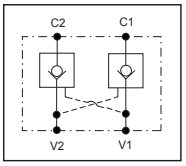
S	L3	L2	L1	L	I	H3	H2	H1	H	ØF	R			Y	Pilot Ratio	Weight kg
35	-	30	50	65	85	-	35	40.5	90.5	-	82			1/2	3.6:1	1.00
35	10	22	37	50	85	10	28	41.5	82.5	9	82			3/8	5.4:1	0.60

Dual, Pilot Operated Check

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.53.01.10.03.**	VSO-DE	50 LPM	350 BAR	1/2”	$ 182.00
05.53.01.10.04.**		100 LPM		3/4”	$ 535.00
05.53.01.10.97.**		30 LPM		3/8”	$ 170.00





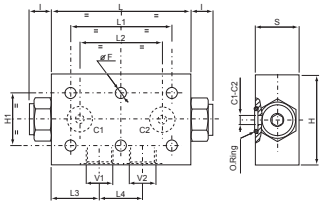


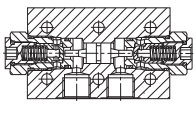
Technical Data

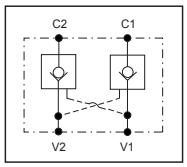
WARNING: Pilot ratio 6:1 is also available for 1/2 size (X=25)	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

S	L5	L4	L3	L2	L1	L	I	H4	H3	H2	H1	H	F		Y	Pilot Ratio	Weight kg
50	57.5	57.5	30	30	82.5	165	24.5	14.5	60	14.5	44.5	89	8.5		3/4	4:1	2.55
35	38	38	20.5	20.5	55	110	17.5	14.5	40	14.5	34.5	69	8.5		1/2	3.2:1	1.06
35	32	32	17	17	48	96	8.5	9.5	40	9.5	29.5	59	6.5		3/8	7:1	0.85

05.53.02.10.02.**	VSO-DE-FCB	30 LPM	350 BAR	3/8”	$ 273.00







Technical Data

WARNING: Pilot ratio 6:1 is also available for 1/2 size (X=25)	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

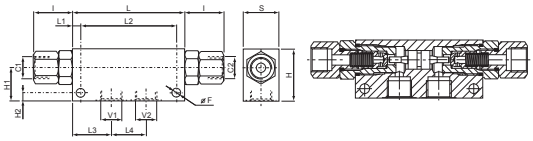
S	L4	L3	L2	L1	L	I	H1	H	F			O ring	Y	Pilot Ratio	Weight kg
49	50	57.5	105	135	165	25	50	89	10.5			18.64x3.53	3/4	4:1	2.50
34	34	38	65	80	110	17.5	40	69	8.5			15.34x2.62	1/2	3.2:1	0.95
34	32	32	62	70	96	8.5	40	59	6.5			9.19x2.62	3/8	7:1	0.75

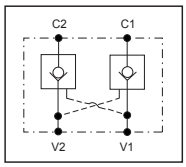
** Denotes pressure range.

Check Valves

Dual, Pilot Operated Check

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.53.03.10.03.**	VSO-DE-L	50 LPM	350 BAR	1/2”	$ 182.00
05.53.03.10.04.**		100 LPM		3/4”	$ 568.00
05.53.03.10.09.**		20 LPM		1/4”	$ 142.00





Technical Data	
WARNING: Pilot ratio 6:1 is also available for 1/2 size (X=25)	
Pilot ratio 9:1 is available for 1/4 (X=37)	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

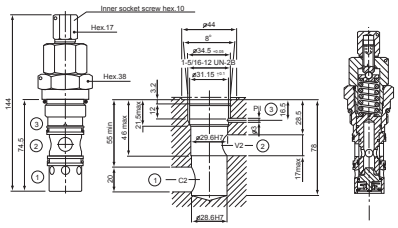
S	L4	L3	L2	L1	L	I	H2	H1	H	F		Y	Pilot Ratio	Weight kg
50	50	57.5	145	10	165	57	10	45	70	10.5		3/4	3.6:1	1.15
35	34	38	94	8	110	38.5	8	32	50	8.5		1/2	3.2:1	1.15
35	36	22	34	6	80	33	6	24	40	6.5		1/4	4:1	0.70

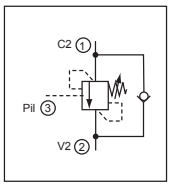
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted, Cartridge Type, Overcentre

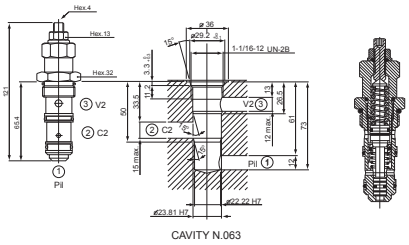
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.52.02.03.99.**	VBSO-SEC-150	150 LPM	350 BAR	Cartridge	$ 278.00

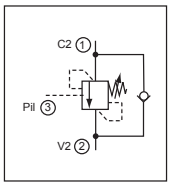




Technical Data	
Installation torque	142-154 Nm
Max. working pressure	350 bar
Flow max.	150 l/min
Weight	0.60 kg

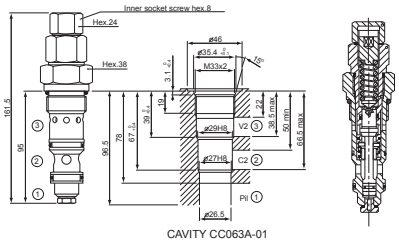
04.52.04.03.99.**	VBSO-SEC-30	60 LPM	350 BAR	Cartridge	$ 200.00

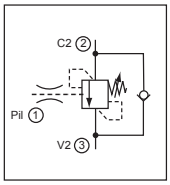




Technical Data	
Installation torque	116-128 Nm
Max. working pressure	350 bar
Flow max.	60 l/min
Weight	0.25 kg

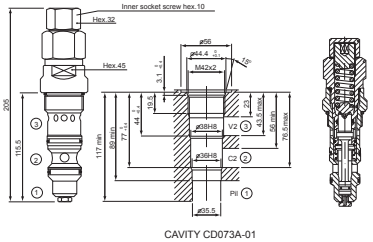
04.52.11.03.99.**	VBSO-SEC-33	150 LPM	350 BAR	Cartridge	$ 435.00

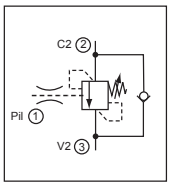




Technical Data	
Installation torque	200-225 Nm
Max. working pressure	350 bar
Flow max.	150 l/min
Weight	0.66 kg

04.52.12.03.99.**	VBSO-SEC-42	300 LPM	350 BAR	Cartridge	$ 555.00





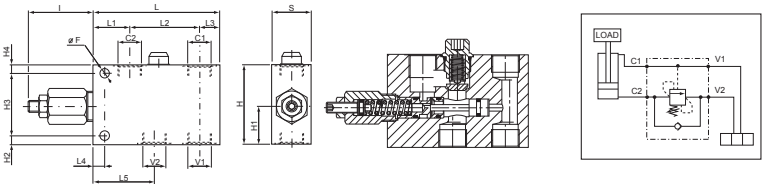
Technical Data	
Installation torque	246-272 Nm
Max. working pressure	350 bar
Flow max.	300 l/min
Weight	1.6 kg

** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

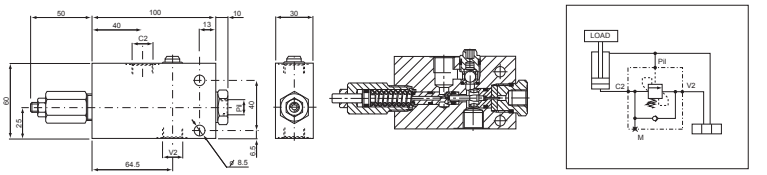
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.41.01.03.03.**	VBSO-SE	120 LPM	350 BAR	1/2”	$ 187.00
05.41.01.03.04.**		140 LPM		3/4”	$ 286.00
05.41.01.10.03.**		120 LPM		1/2”	$ 187.00
05.41.01.10.04.**		140 LPM		3/4”	$ 286.00



Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

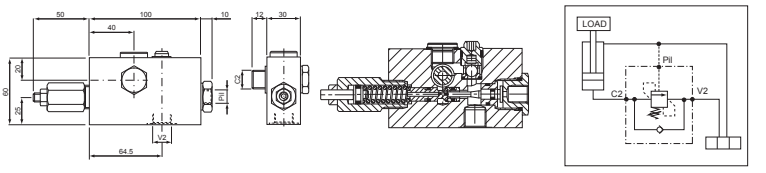
S	L5	L4	L3	L2	L1	L	I	H4	H3	H2	H1	H	F	Y	Weight kg
40	62.5	10	22	79	34	135	60	10	70	10	38	90	10.5	3/4	1.42
35	54.5	10	18	62.5	32.5	113	60	8	54	8	32	70	8.5	1/2	0.90

05.43.01.03.03.**	VBSO-SE-NBA	70 LPM	350 BAR	1/2”	$ 237.00
05.43.01.10.02.**		40 LPM		3/8”	$ 176.00
05.43.01.10.03.**		70 LPM		1/2”	$ 237.00
05.43.01.37.02.**		40 LPM		3/8”	$ 176.00



Technical Data	
Max. working pressure	350 bar
Flow max.	40 l/min
Weight	0.67 kg

05.43.22.03.03.**	VBSO-SE-NBA-FCV	70 LPM	350 BAR	1/2”	$ 261.00
05.43.22.10.02.**		40 LPM		3/8”	$ 261.00
05.43.22.37.02.**		40 LPM		3/8”	$ 281.00



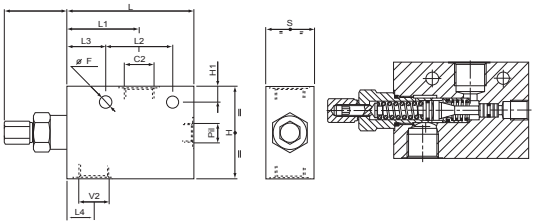
Technical Data	
Installation torque	41-49 Nm (max 90º)
Max. working pressure	350 bar
Flow max.	40 l/min
Weight	0.9 kg

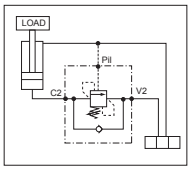
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

Stock No.	Description	Max. Flow	Max. Pressure	PortSize	List Price
08.41.01.03.02.**	A-VBSO-SE-30	60 LPM	350 BAR	3/8”	$ 189.00
08.41.01.03.03.**				1/2”	$ 195.00
08.41.01.03.09.**				1/4”	$ 189.00

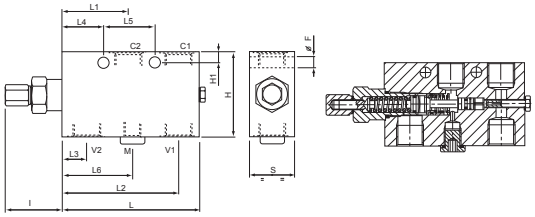


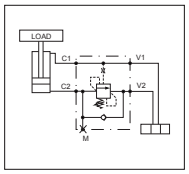


Technical Data	
Max. pressure	350 bar
Flow see performance graph in catalogue	
Flow max.	60 l/min
Steel body	

S	L4	L3	L2	L1	L	I	H1	H	F				Y	Weight kg
35	19	25.6	47.6	51	91	45	11	65	8.5				1/2	1.49
30	19	25.6	47.6	51	91	45	7	55	8.5				3/8	1.08
30	19	25.6	47.6	51	91	45	7	55	8.5				1/4	1.13

08.45.16.03.02.**	A-VBSO-SE-30-PL	60 LPM	350 BAR	3/8”	$ 189.00
08.45.16.03.03.**				1/2”	$ 195.00

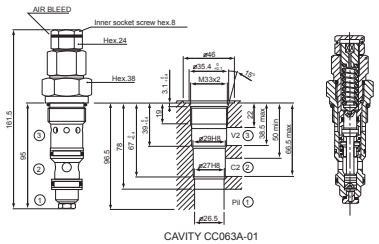


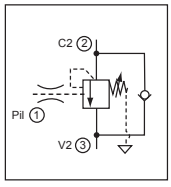


Technical Data	
Max. pressure	350 bar
Flow see performance graph in catalogue	
Steel body	

S	L6	L5	L4	L3	L2	L1	L	I	H1	H	F			Y	Weight kg
35	54	40	32	19.5	91	52	109	45	8	65	8.5			1/2	1.81
30	-	40	32	19.5	91	52	109	45	8	55	8.5			3/8	1.30
30	-	40	32	19.5	91	52	109	45	8	55	8.5			1/4	1.30

04.59.03.03.99.**	VBSO-SEC-CCAP-33	170 LPM	350 BAR	Cartridge	$ 444.00





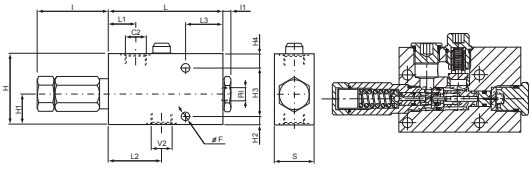
Technical Data	
Installation torque	200-225 Nm
Max. working pressure	350 bar
Flow max.	170 l/min
Weight	0.67 kg

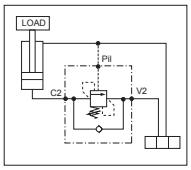
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.41.62.03.03.**	VBSO-SE-NA	80 LPM	350 BAR	1/2”	$ 299.00
05.41.62.03.04.**		120 LPM		3/4”	$ 407.00
05.41.62.03.05.**		220 LPM		1”	$ 638.00
05.41.62.10.03.**		80 LPM		1/2”	$ 299.00
05.41.62.10.04.**		120 LPM		3/4”	$ 407.00
05.41.62.10.05.**		220 LPM		1”	$ 638.00

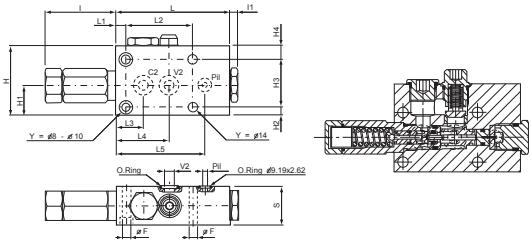


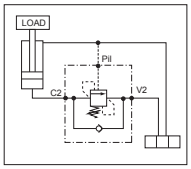


Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

S	L3	L2	L1	L	I	H4	H3	H2	H1	H	F		Y	Weight kg
50	40.5	77	35	160	92.5	35	55	10	35	100	10.5		1	3.25
40	42.5	62	29	127.5	71.5	30	50	10	35	90	10.5		3/4	1.755
40	37.5	53.5	27.5	115	71.5	14	48	8	30	70	8.5		1/2	1.39
35	27.5	48.5	27.5	100	61	17	40	8	26.5	65	8.5		3/8	0.98

05.41.65.10.03.**	VBSO-SE-NA-FC	80 LPM	350 BAR	1/2”	$ 336.00

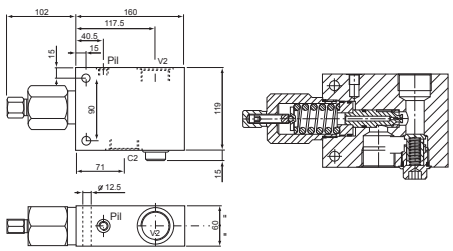


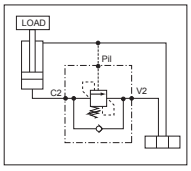


Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

S	L5	L4	L3	L2	L1	L	I1	I	H4	H3	H2	H1	H	F	O ring	Y	Weight kg
39	101	61	28	75	9	127.5	10	71.5	30	50	10	35	90	10.5	15.64x2.62	Ø14	1.74
39	89.5	53.5	27.5	67.5	10	115	10	71.5	14	48	8	32	70	8.5	15.34x2.62	Ø10	1.38
34	85.5	50	25.5	63.5	9	100	11	61	16	40	8	26.5	64	8.5	15.34x2.62	Ø8	0.97

05.41.41.03.06.**	VBSO-SE-N	300 LPM	210 BAR	1-1/4”	$ 1052.00
05.41.41.10.06.**					$ 1052.00





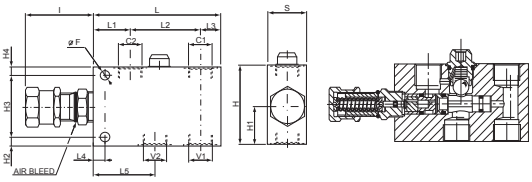
Technical Data	
Max. working pressure	210 bar
Flow max	300 l/min
Weight	4.45 kg

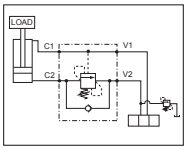
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.41.06.02.03.**	VBSO-SE-CC	120 LPM	350 BAR	1/2”	$ 220.00
05.41.06.02.04.**		140 LPM		3/4”	$ 330.00
05.41.06.10.03.**		120 LPM		1/2”	$ 220.00

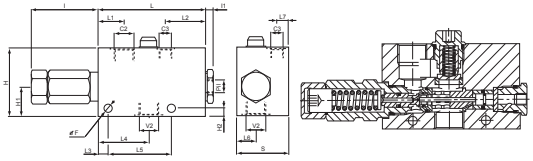


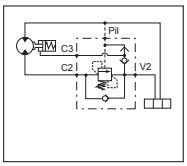


Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

S	L5	L4	L3	L2	L1	L	I	H3	H2	H1	H	F	Y	Weight kg
40	62.5	10	22	79	34	135	65	70	10	38	90	10.5	3/4	1.42
35	54.5	10	18	62.5	32.5	113	65	54	8	32	70	8.5	1/2	0.905

05.41.81.03.03.**	VBSO-SE-NA-LC	80 LPM	350 BAR	1/2”	$ 465.00
05.41.81.03.04.**		120 LPM		3/4”	$ 455.00
05.41.81.03.05.**		220 LPM		1”	$ 712.00
05.41.81.10.03.**		80 LPM		1/2”	$ 357.00
05.41.81.10.04.**		120 LPM		3/4”	$ 455.00
05.41.81.10.05.**		220 LPM		1”	$ 712.00

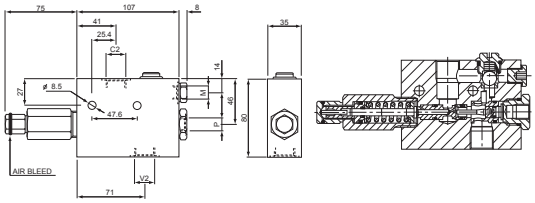


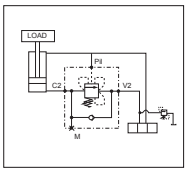


Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

S	L7	L6	L5	L4	L3	L2	L1	L	I1	I	H2	H1	H	F	Y	Weight kg
70	14	30	85	77	35	44	35	160	10	92.5	10	35	100	10.5	1	4.00
60	15	20	75	62.5	10	48.5	29	127.5	10	71.5	10	35	90	10.5	3/4	2.35
55	12	20	67.5	53.5	10	43.5	27.5	61	10	71.5	8	30	70	8.5	1/2	1.67

05.43.31.10.03.**	VBSO-SE-CC-NBA	70 LPM	350 BAR	1/2”	$ 274.00





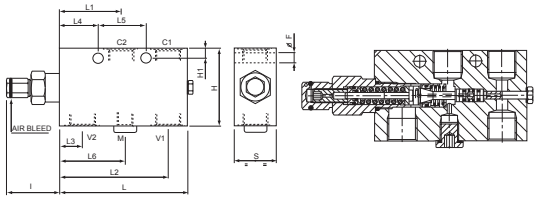
Technical Data	
Max. working pressure	350 bar
Flow max.	70 l/min
Weight	1.05 kg

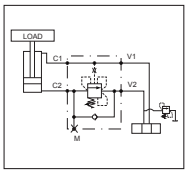
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
08.45.17.03.03.**	A-VBSO-SE-CC-30-PL	60 LPM	350 BAR	1/2”	$ 305.00

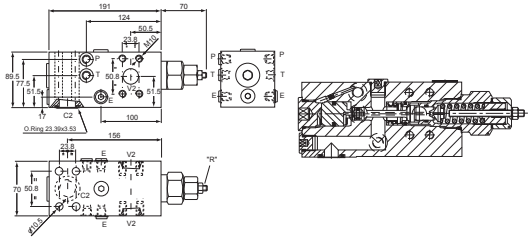


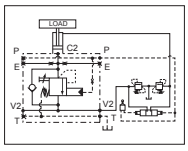


Technical Data	
Max. pressure	350 bar
Flow see performance graph in catalogue	
Steel body	

S	L6	L5	L4	L3	L2	L1	L	I	H1	H	F			Y	Weight kg
35	54	40	32	19.5	91	52	109	53	8	65	8.5			1/2	1.85
30	-	40	32	19.5	91	52	109	53	8	55	8.5			3/8	1.33
30	-	40	32	19.5	91	52	109	53	8	55	8.5			1/4	1.15

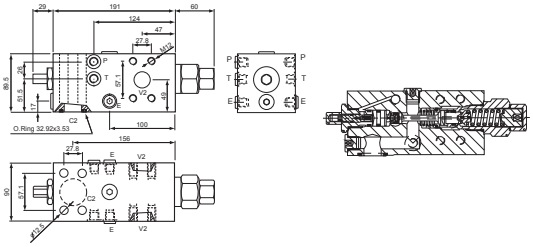
08.45.67.03.72.**	A-VBSO-SE-CCAP-EXC-R-42-FC	300 LPM	420 BAR	3/4”	$ 1668.00

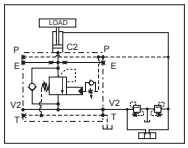




Technical Data	
Max. pressure	420 bar
Flow max.	300 l/min
Weight	10.8 kg
Steel body	

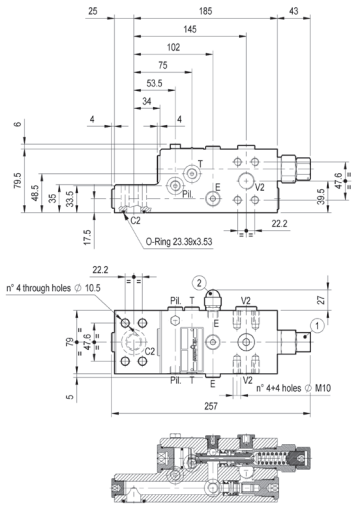
08.45.75.03.73.**	A-VBSO-SE-CCAP-42-FC	300 LPM	350 BAR	1”	$ 1230.00

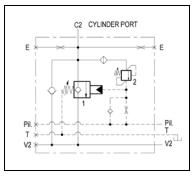




Technical Data	
Max. pressure	350 bar
Max. flow	300 l/min
Weight	10.8 kg
Steel Body	

08.47.84.03.72.**	A-VBC-33-FC	250 LPM	600 BAR	3/4”	$ 1126.00





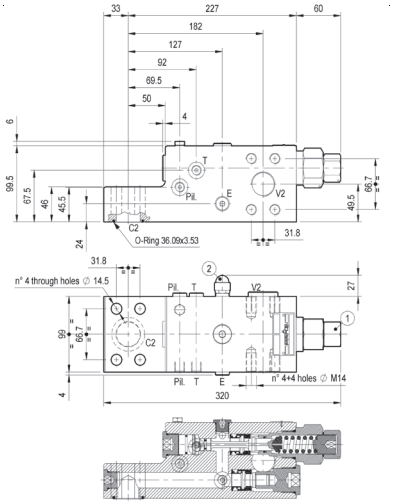
Technical Data	
Max. pressure	420 bar
Flow max.	250 l/min
Weight	8.0 kg
Steel body	

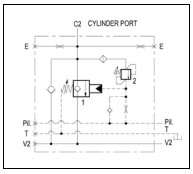
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
08.47.85.03.64.**	A-VBC42-FC	500 LPM	600 BAR	1-1/4”	$ 1614.00

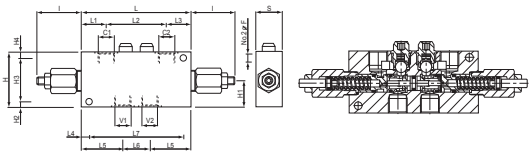


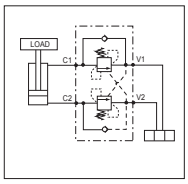


Technical Data	
Max. pressure	420 bar
Flow max.	500 l/min
Weight	15.0 kg
Steel body	

Dual Pilot Assisted, Overcentre

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.42.01.03.03.**	VBSO-DE	120 LPM	350 BAR	1/2”	$ 308.00
05.42.01.03.04.**		140 LPM		3/4”	$ 494.00
05.42.01.10.03.**		120 LPM		1/2”	$ 308.00
05.42.01.10.04.**		140 LPM		3/4”	$ 494.00





Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

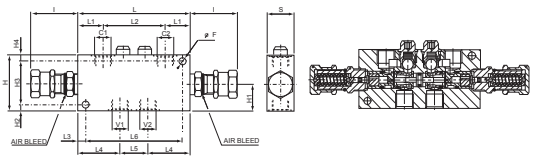
S	L7	L6	L5	L4	L3	L2	L1	L	I	H4	H3	H2	H1	H	F	Y	Weight kg
35	125	36	54.5	10	32.5	80	32.5	145	60	8	54	8	32	70	8.5	1/2	1.37
40	155	50	62.5	10	34	107	34	175	60	10	70	10	38	90	10.5	3/4	2.10

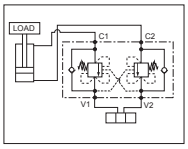
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.42.05.02.03.**	VBSO-DE-CC	120 LPM	350 BAR	1/2”	$ 383.00
05.42.05.02.04.**		140 LPM		3/4”	$ 582.00

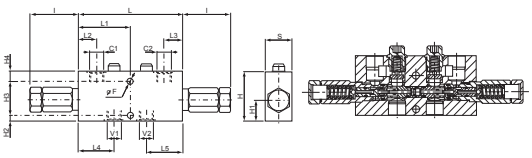


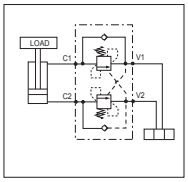


Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

S	L6	L5	L4	L3	L2	L1	L	I	H4	H3	H2	H1	H	F	Y	Weight kg
40	155	50	62.5	10	107	34	175	65	10	70	10	38	90	10.5	3/4	2.15
35	125	36	54.5	10	86	29.5	145	65	8	54	8	33	70	8.5	M22	1.45
35	125	36	54.5	10	80	32.5	145	65	8	54	8	33	70	8.5	1/2	1.45

05.42.25.03.05.**	VBSO-DE-NA	220 LPM	350 BAR	1”	$ 1229.00
05.42.25.10.03.**		80 LPM		1/2”	$ 519.00
05.42.25.10.05.**		220 LPM		1”	$ 1229.00

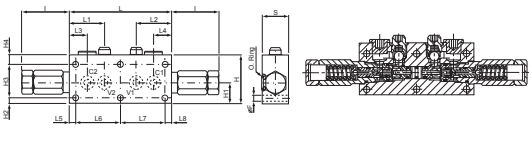


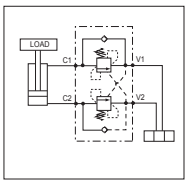


Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

S	L5	L4	L3	L2	L1	L	I	H4	H3	H2	H1	H	F		Y	Weight kg
40	62	62	29	29	90	180	69	30	50	10	35	90	10.5		3/4	2.60
40	53.5	53.5	27.5	27.5	77.5	155	71.5	14	48	8	30	70	8.5		1/2	2.10
35	48.5	48.5	25.5	25.5	77.5	145	61.5	17	40	8	26.5	65	8.5		3/8	1.45

05.42.27.10.03.**	VBSO-DE-NA-FC	80 LPM	350 BAR	1/2”	$ 603.00





Technical Data	
Max. working pressure	350 bar
Flow see performance chart in catalogue	

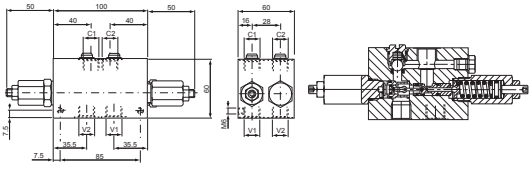
S	L8	L7	L6	L5	L4	L3	L2	L1	L	I	H4	H3	H2	H1	H	F	O ring	Y	Weight kg
39	10	80	80	10	29	29	62	62	180	69	30	50	10	35	90	10.5	24.99x3.53	Ø14	6.9
39	10	67.5	67.5	10	27.5	27.5	53.5	53.5	155	71.5	14.5	48	7.5	31.5	70	8.5	15.34x2.62	Ø10	6.9
34	9	63.5	63.5	9	25.5	25.5	50	50	145	61.5	17.5	40	7.5	26.5	65	8.5	15.34x2.62	Ø8	6.9

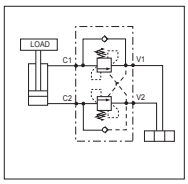
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

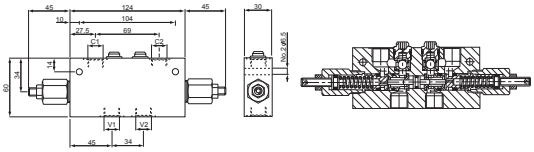
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.42.38.03.03.**	VBSO-DE-NBA	70 LPM	350 BAR	1/2”	$ 451.00
05.42.38.10.02.**		40 LPM		3/8”	$ 343.00

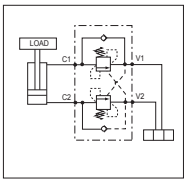




Technical Data	
Max. working pressure	350 bar
Flow max.	40 l/min
Weight	1.35 kg

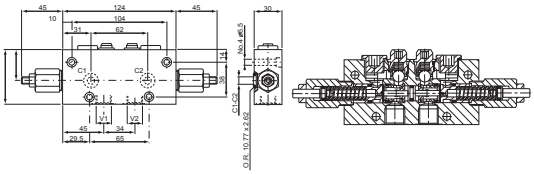
05.42.47.03.02.**	VBSO-DE-NN	40 LPM	350 BAR	3/8”	$ 289.00

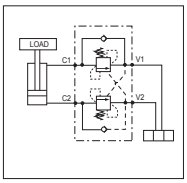




Technical Data	
Max. working pressure	350 bar
Flow max.	40 l/min
Weight	0.80 kg

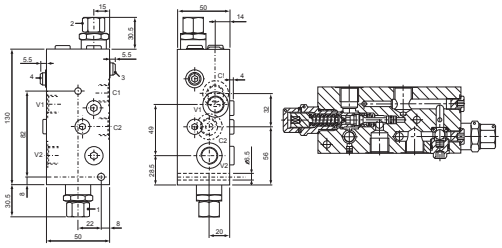
05.42.48.03.02.**	VBSO-DE-NN-FCB	40 LPM	350 BAR	3/8”	5.31.02	$ 351.00

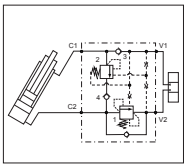




Technical Data	
Max. working pressure	350 bar
Flow max.	40 l/min
Weight	0.75 kg

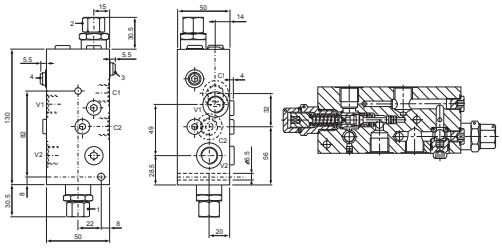
05.44.58.03.02.**	VBSO-DE-CR-78-PRPF	40 LPM	430 BAR	3/8”	$ 855.00

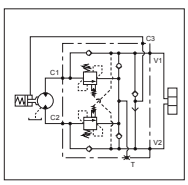




Technical Data	
Max. working pressure	430 bar
Flow max.	40 l/min
Weight	1.3 kg

05.71.45.03.04.**	VAA-B-SICN-ST-VF-150	120 LPM	350 BAR	3/4”	$ 1144.00
05.71.47.03.04.**		120 LPM	350 BAR	3/4”	$ 1186.00
05.71.47.03.05.**		200 LPM	350 BAR	1”	$ 1755.00





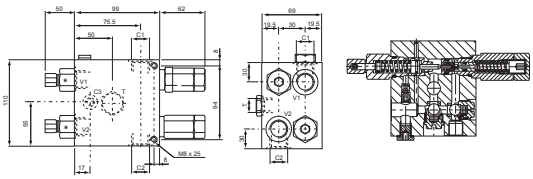
Technical Data	
Max. working pressure	350 bar
Flow max.	120 l/min
Weight	5.7 kg

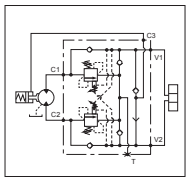
** Denotes pressure range.

Overcentre & Motion Control Valves

Pilot Assisted Overcentre

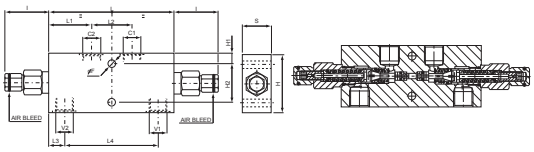
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.71.47.37.02.**	VAA-B-SICN-PDRM-VF-150	40 LPM	350 BAR	3/8”	$ 1221.00

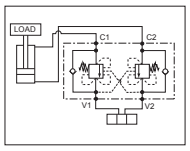




Technical Data	
Max. working pressure	350 bar
Max. flow	40 l/min
Weight	3.50 kg

08.44.04.03.03.**	A-VBSO-DE-CC-30-CSL					60 LPM	350 BAR					1/2”		$ 499.00

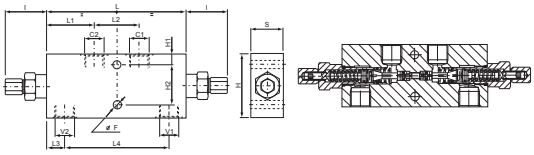


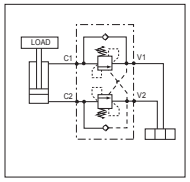


Technical Data	
Max. pressure	350 bar
Flow see performance graph in catalogue	
Steel body	

S	H2	H1	H	I	L4	L3	L2	L1	L	F			Y	Weight kg
35	43	11	65	53	112	19.5	48	51.5	151	8.5			1/2	2.9
30	38	8.5	55	53	112	19.5	48	51.5	151	8.5			3/8	2.5

08.44.07.03.02.**	A-VBSO-DE-30-CSL					60 LPM	350 BAR					3/8”		$ 338.00
08.44.07.03.03.**						60 LPM						1/2”		$ 345.00

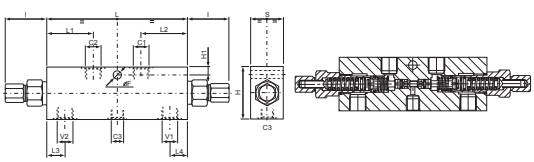


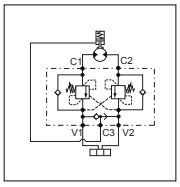


Technical Data	
Max. pressure	350 bar
Flow see performance graph in catalogue	
Steel body	

S	H2	H1	H	I	L4	L3	L2	L1	L	F			Y	Weight kg
35	43	11	65	45	112	19.5	48	51.5	151	8.5			1/2	2.2
30	38	8.5	55	45	112	19.5	48	51.5	151	8.5			3/8	1.7

08.44.10.03.02.**	A-VBSO-DE-VF-30-CSL					60 LPM	250 BAR					3/8”		$ 413.00
08.44.10.03.03.**						60 LPM						1/2”		$ 426.00





Technical Data	
Max. pressure	250 bar
Flow see performance graph	
Steel body	

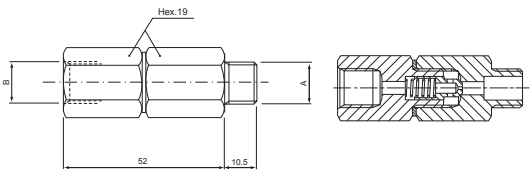
S	L4	L3	L2	L1	L	I	H1	H	F			Y	Weight kg
35	19.5	19.5	51.5	51.5	151	45	11	65	8.5			1/2	2.50
30	19.5	19.5	51.5	51.5	151	45	8.5	55	8.5			3/8	1.88

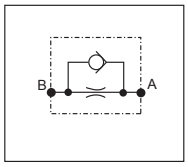
** Denotes pressure range.

Special Application Valves

One Way Restrictors

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.46.03.00.09.**	VF-MF	10 LPM	350 BAR	1/4”	$ 38.00





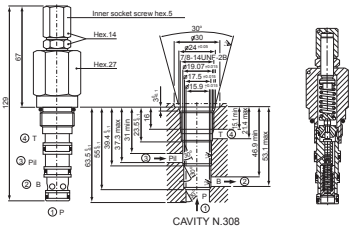
Technical Data	
Installation torque	33-37 Nm
Max. working pressure	350 bar
Flow max. free flow (A-B)	10 l/min
Weight	0.10 kg

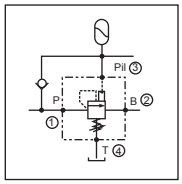
Z	09	06	00	07	10	12	11	03	08	05	01
Calibrated orifice	Ø0.3 mm*	Ø0.4 mm	Ø0.5 mm	Ø0.6 mm	Ø0.7 mm	Ø0.8 mm	Ø0.9 mm	Ø1.0 mm	Ø1.3 mm	Ø1.5 mm	Ø1.75 mm

*Hole Ø 0.5 with Ø 0.4 mm wire.

Cartridge Type, Priority Unloading

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
04.75.10.03.99.**	VMSP-78	40 LPM	210 BAR	Cartridge	$ 434.00

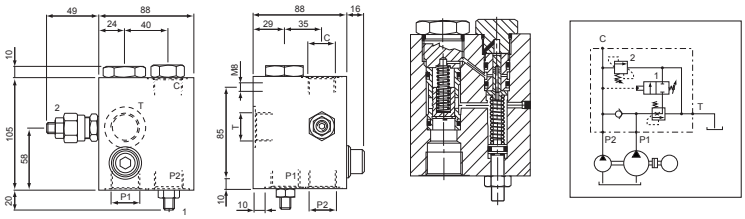




Technical Data	
Installation torque	75-85 Nm
Max. working pressure	210 bar
Flow max.	40 l/min
Weight	0.28 kg

Pump Unloading

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.90.06.03.04.**	VEP-VSP2	30 LPM	350 BAR	3/4”	$ 607.00



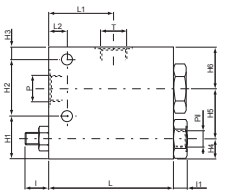
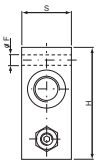
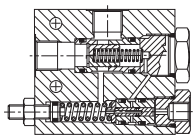
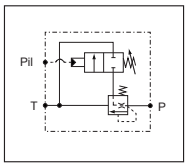
Technical Data	
Max. working pressure	P1 = 100 bar P2 = 350 bar
Max. flow of valve 2	30 l/min
Weight	2.5 kg

** Denotes pressure range.

Special Application Valves

Pilot Operated Unloading

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.93.04.03.03.**	BM-N	200 LPM	300 BAR	1/2”	$ 352.00

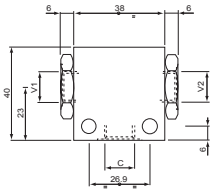
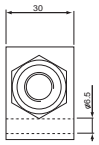
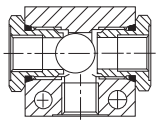
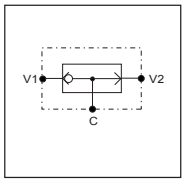
Technical Data

Max. working pressure	300 bar
Flow see performance graph in catalogue	

S	H6	H5	H4	H3	H2	H1	H	I1	I	L2	L1	L	F		Y	Weight kg
40	49	40	16	25	45	35	105	11	20	15	52	100	8.5		3/4	1.35
40	34	40	16	10	45	35	90	11	20	15	52	100	8.5		1/2	1.30

Shuttle

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
05.99.05.00.09	VFC-NC	50 LPM	350 BAR	1/4”	$ 63.00

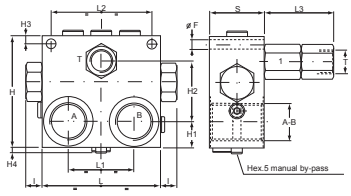





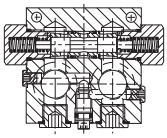
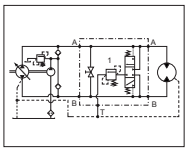
Technical Data

Max. working pressure	350 bar
Flow see performance graph in catalogue	
Weight	0.17 kg

For Hydrostatic Transmission Purge

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
08.64.05.00.05.00	A-VSL-R	100 LPM	350 BAR	1”	$ 1700.00



Technical Data

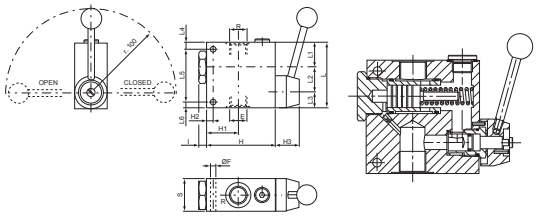
Max. working pressure	350 bar
Flow through shuttle valve and purge relief valve see performance graph in catalogue	
Steel body	

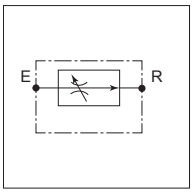
** Denotes pressure range.

Flow Control Valves

Two-Way Type Pressure Compensated Flow Regulators

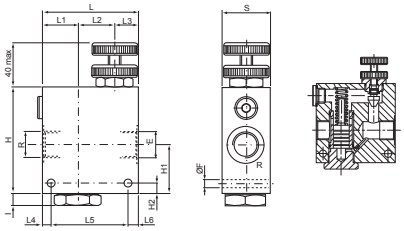
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.22.03.50.03.**	VRFC2-L	55 LPM	210 BAR	1/2”	$ 406.00

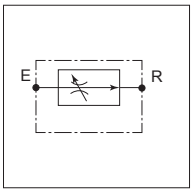




Technical Data	
Max. working pressure	210 bar

0M.22.03.70.02.**	VRFC2	30 LPM	210 BAR	3/8”	$ 300.00
0M.22.03.70.03.**		55 LPM		1/2”	$ 300.00
0M.22.03.70.04.**		90 LPM		3/4”	$ 406.00
0M.22.03.70.05.**		190 LPM		1”	$ 503.00



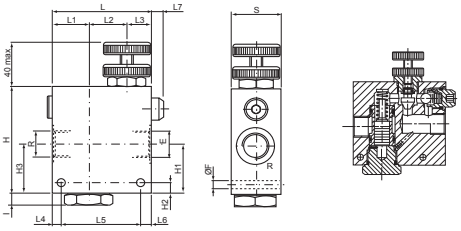


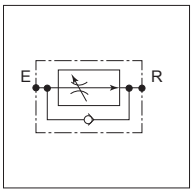
Technical Data	
Max. working pressure	210 bar

S	L6	L5	L4	L3	L2	L1	L	I	H2	H1	H	F	Y	Q	Weight kg
50	18	82	8	30	38	40	108	10	10	46	108	8.5	1	190	1.94
50	10	82	8	25	40	35	100	10	10	44	100	8.5	3/4	90	1.65
35	8	64	8	20	30	30	80	10	8	39	85	6.5	1/2	55	0.88

Two-Way Type Pressure Compensated Flow Regulators with Free Reverse Flow

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.24.03.70.03	VRFC2-VU	55 LPM	210 BAR	1/2”	$ 385.00
0M.24.03.70.04		90 LPM		3/4”	$ 492.00





Technical Data	
Max. working pressure	210 bar

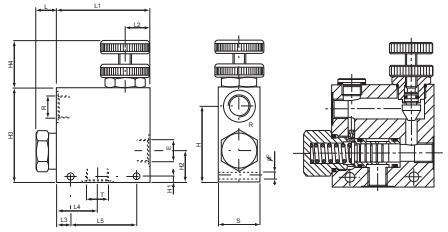
S	L7	L6	L5	L4	L3	L2	L1	L	I	H3	H2	H1	H	F	Y	Q	Weight kg
50	13	55	82	8	65	40	40	145	10	46	10	44	110	8.5	1	190	3.07
50	13	40	82	8	55	40	35	130	10	44	10	46	100	8.5	3/4	90	2.05
40	10	23	64	8	39	26	30	95	10	39	8	42	85	6.5	1/2	55	1.04
40	10	23	64	8	39	26	30	95	10	39	8	43.5	85	6.5	3/8	30	1.04

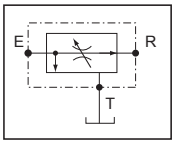
** Denotes pressure range.

Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.32.03.40.03.**	VRFC3	90 LPM	210 BAR	1/2”	$ 365.00
0M.32.03.70.03		90 LPM		1/2”	$ 333.00
0M.32.03.70.04		150 LPM		3/4”	$ 438.00

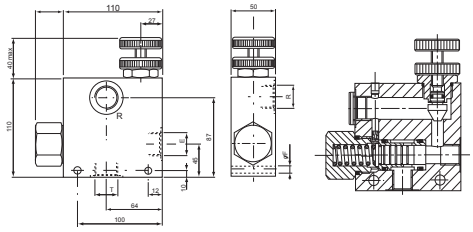


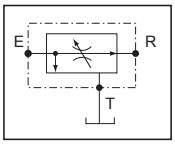


Technical Data	
Max. working pressure	210 bar

S	L5	L4	L3	L2	L1	L	H4	H3	H2	H1	H	F	QR	QE	Y	Weight kg
40	64	39	13	20	90	25	40	90	30	6	72	6.5	55	90	1/2	1.06
50	88	44	10	30	110	22	40	110	35	7	87	8.5	90	150	3/4	1.95

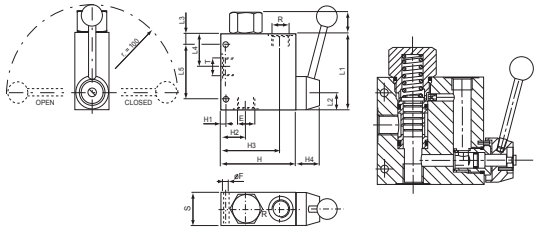
0M.32.03.40.05	VRFC3	280 LPM	210 BAR	1”	$ 739.00
0M.32.03.70.05		280 LPM		1”	$ 535.00

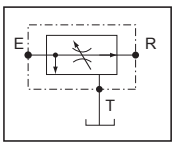




Technical Data	
Max. working pressure	210 bar
Weight	1.95 kg

0M.32.03.50.02	VRFC3-L	55 LPM	210 BAR	3/8”	$ 438.00
0M.32.03.50.03		90 LPM		1/2”	$ 438.00
0M.32.03.50.04		150 LPM		3/4”	$ 546.00

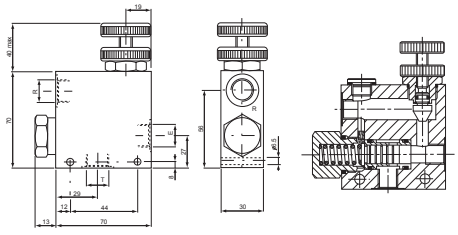


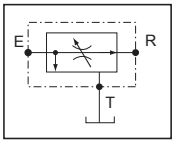


Technical Data	
Max. working pressure	210 bar

S	L5	L4	L3	L2	L1	L	H4	H3	H2	H1	H	F	QR	QE	Y	Weight kg
40	64	39	13	20	90	25	30	72	30	6	90	6.5	30	*55*	3/8	1.13
40	64	39	13	20	90	25	30	72	30	6	90	6.5	55	*90*	1/2	1.13
50	88	44	10	30	110	22	30	87	35	7	110	8.5	90	*150*	3/4	2.05

0M.32.03.70.97	VRFC310	40 LPM	210 BAR	3/8”	$ 273.00





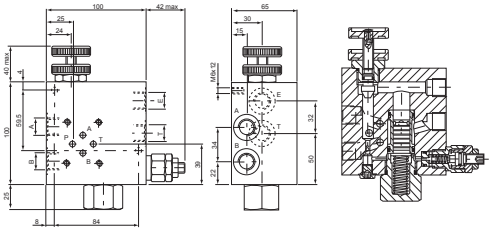
Technical Data	
Max. working pressure	210 bar
Weight	0.55 kg

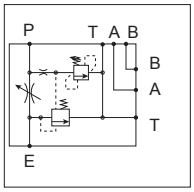
** Denotes pressure range.

Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators with Relief

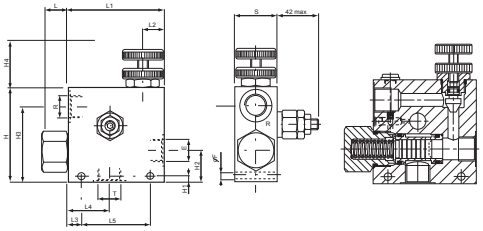
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.33.02.70.02	VRFC3-VS10-CETOP 3	55 LPM	210 BAR	3/8”	$ 626.00

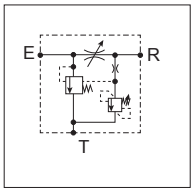




Technical Data	
Max. working pressure	210 bar
Weight	1.83 kg

0M.33.03.40.03	VRFC3VS10	90 LPM	210 BAR	1/2”	$ 428.00
0M.33.03.70.02		55 LPM		3/8”	$ 428.00
0M.33.03.70.03		90 LPM		1/2”	$ 428.00
0M.33.03.70.04		150 LPM		3/4”	$ 535.00
0M.33.03.70.05		280 LPM		1”	$ 913.00



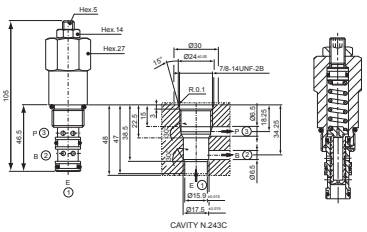


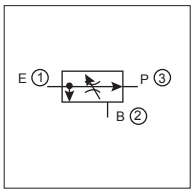
Technical Data	
Max. working pressure	210 bar

S	L5	L4	L3	L2	L1	L	H4	H3	H2	H1	H	F	QR	QE	Y	Weight kg
60	75	46	-	27	110	35	40	127	65	20	155	8.5	190	280	1	3.30
50	88	44	10	30	110	22	40	87	35	7	110	8.5	90	150	3/4	1.99
40	64	39	13	20	90	25	40	72	30	6	90	6.5	55	90	1/2	1.10
40	64	39	13	20	90	25	40	72	30	6	90	6.5	30	55	3/8	1.10

Three-Way, Combination Type, Cartridge Style, Pressure Compensated Flow Regulators

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.41.01.03.06.00	VRFC3C-C	40 LPM	210 BAR	Cartridge	$ 162.00





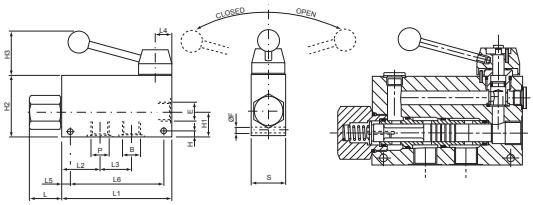
Technical Data	
Installation torque	64-72 Nm
Max. working pressure	210 bar
Weight	0.26 kg

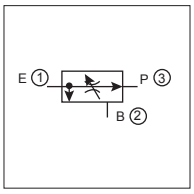
** Denotes pressure range.

Flow Control Valves

Three-Way, Combination Type, Pressure Compensated Flow Regulators

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.42.03.50.03	VRFC3C-L	90 LPM	210 BAR	1/2”	$ 503.00



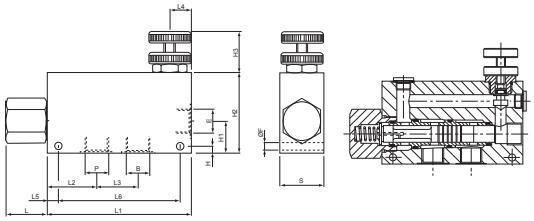


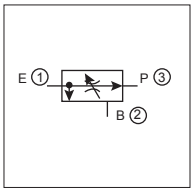
Technical Data

Max. working pressure	210 bar
QE = Max. admitted inlet flow “E” port l/min	
QP = Max. delivery in priority “P” port l/min	

S	L6	L5	L4	L3	L2	L1	L	H3	H2	H1	H	F	QP	QE	Y	Weight kg
50	135	10	25	44	54	155	35	40	90	35	7	8.5	90	150	3/4	2.60
40	110	10	20	37	45	130	38	40	70	28	6	6.5	55	90	1/2	1.40
40	110	10	20	37	45	130	38	40	70	28	6	6.5	30	55	3/8	1.40

0M.42.03.70.02	VRFC3C	55 LPM	210 BAR	3/8”	$ 396.00
0M.42.03.70.03		90 LPM		1/2”	$ 396.00
0M.42.03.70.04		150 LPM		3/4”	$ 591.00
0M.42.03.70.05		380 LPM		1”	$ 781.00





Technical Data

Max. working pressure	210 bar
QE = Max. admitted inlet flow “E” port l/min	
QP = Max. delivery in priority “P” port l/min	

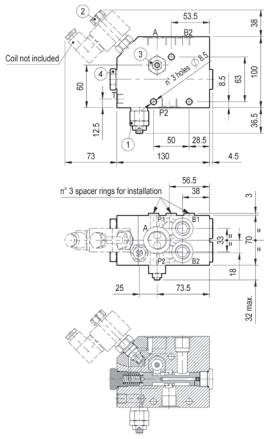
S	L6	L5	L4	L3	L2	L1	L	H3	H2	H1	H	F	QP	QE	Y	Weight kg
70	130	10	27	56.5	48	150	54	40	130	65	10	8.5	190	380	1	4.35
50	135	10	25	44	54	155	35	40	90	35	7	8.5	90	150	3/4	2.50
40	110	10	20	37	45	130	38	40	70	28	6	6.5	55	90	1/2	1.30
40	110	10	20	37	45	130	38	40	70	28	6	6.5	30	55	3/8	1.30

** Denotes pressure range.

Flow Control Valves

Three-Way, Combination Type, Pressure Compensated Flow Regulators with Double By-Pass, Relief and Solenoid Control

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.43.12.80.03.**	A-VRFC3C-VEI-VS-2E	100 LPM	350 BAR	1/2”	$ 2485.00
0M.43.12.80.04.**		200 LPM		3/4”	$ 2955.00



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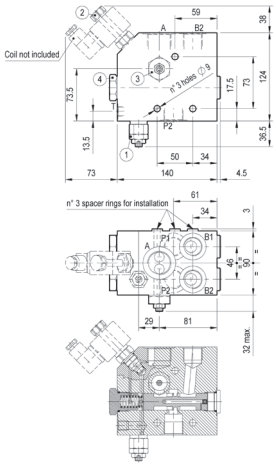
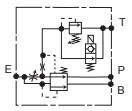
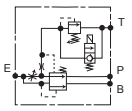


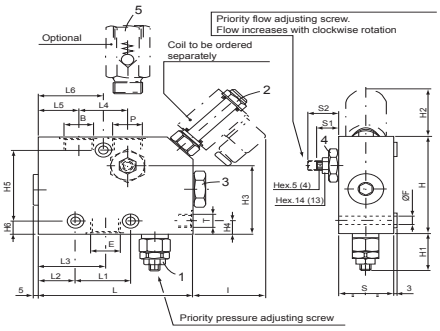
0M.43.12.80.04.**

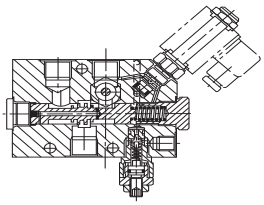
K	SYMBOL
43	
44	

Technical Data	
Max. working Pressure	210 bar
QE = Max. admitted inlet flow “E” port - 90 l/min	
QP = Max. delivery in priority flow “P” port - 55 l/min	
Weight	1.3 kg

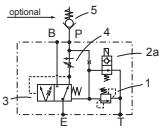
Three-Way, Combination Type, Pressure Compensated Flow Regulators with Relief and Solenoid Control

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.43.20.80.03.**	A-VRFC3C3-VEI-VS-PT	100 LPM	350 BAR	1/2”	$ 1356.00
0M.43.20.80.04.**		200 LPM		3/4”	$ 1692.00
0M.43.20.80.05.**		300 LPM		1”	$ 2442.00
0M.43.20.80.06.**		400 LPM		1-1/4”	$ 2922.00

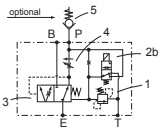




03 - 04



05 - 06



Technical Data	
Max. inlet pressure in “E”	350 bar
Max. regulated “P” pressure	210 bar
Back pressure on “T”	< 1.5 bar
Steel Body	

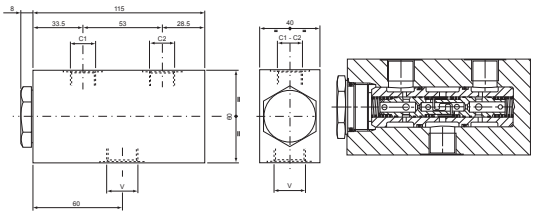
S2	S1	S	L6	L5	L4	L3	L2	L1	L	I	H6	H5	H4	H3	H2	H1	H	F	Y	Weight kg
31	18	70	86	54.5	62.5	88.5	48	76	190	57	18	90	14	92	40	38	130	8.5	06	12.5
30	19.5	60	74.5	46.5	56.5	78	36.5	76	173	58	15	90	13.5	80.5	40	38	120	8.5	05	9.0
27.5	19.5	50	59	37	44	61	34	50	140	65	13.5	73	13.5	69.5	50	38	100	8.5	04	4.8
33.5	24.5	40	54.5	35.5	38	56.5	29.5	50	130	66	8.5	73	12.5	60	50	38	90	8.5	03	3.4

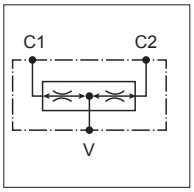
** Denotes pressure range.

Flow Control Valves

Flow Dividers - Combiners

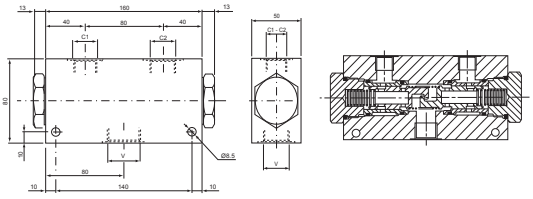
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	List Price
0M.51.03.90.02.11	DRF	11 LPM	210 BAR	3/8”	$ 376.00
0M.51.03.90.02.22		22 LPM			$ 376.00
0M.51.03.90.02.55		5.8 LPM			$ 376.00
0M.51.03.90.03.22		22 LPM		1/2”	$ 376.00
0M.51.03.90.03.38		38 LPM			$ 376.00

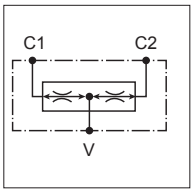




Technical Data	
Max. working pressure	210 bar
Weight	0.90 kg

0M.51.03.90.04.52	DRF	52 LPM	210 BAR	3/4”	$ 610.00
0M.51.03.90.04.95		95 LPM			$ 610.00
0M.51.03.90.05.15		150 LPM		1”	$ 610.00





Technical Data	
Max. working pressure	210 bar
Weight	2.20 kg

** Denotes pressure range.

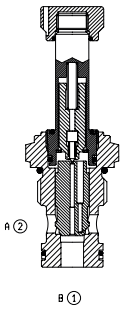
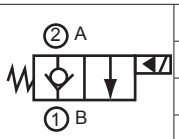
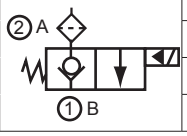
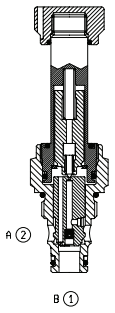
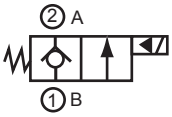
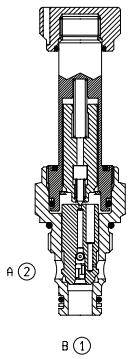
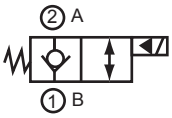
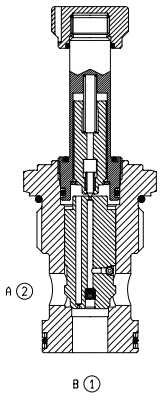
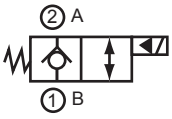
Section 5
EDI Cartridge Valves

MAKE	MODEL	PAGE
EDI	Solenoid Operated Valves	5.02
EDI	Solenoid Operated Valves	5.03
EDI	Solenoid Operated Valves	5.04
EDI	Solenoid Operated Valves	5.05
EDI	Solenoid Operated Valves	5.06
EDI	Solenoid Operated Valves	5.07
EDI	Directional Control Valves	5.08
EDI	Directional Control Valves	5.09
EDI	Directional Control Valves	5.10
EDI	Manifolds	5.11
EDI	Manifolds	5.12
EDI	Continuous Duty Coils	5.12

MAKE	MODEL	PAGE

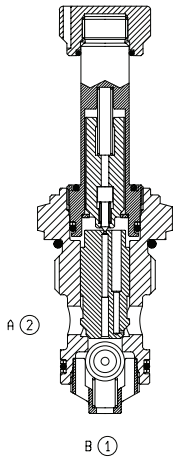
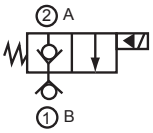
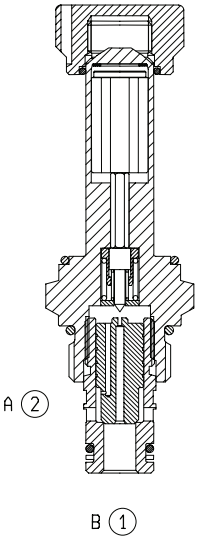
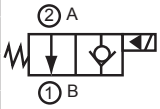
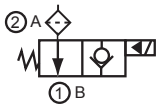
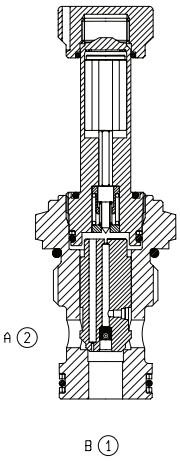
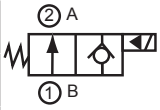
Solenoid Operated Valves

2 Way Pilot Operated Poppet Style

Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Normally Closed - No Reverse Flow Energized							
	0D1501173AS0	70	350	017-E	S8		$ 197.00
	0D1501173BS0	70	350	017-E	S8		$ 247.00
	0D1501183IS0	30	350	018-E	S8		$ 114.00
	0D1501183LS0	30	350	018-E	S8		$ 152.00
	0D1501183AS0	40	350	018-E	S8		$ 165.00
	0D1501183BS0	40	350	018-E	S8		$ 187.00
	0D1501213AS0	150	350	021-E	S8		$ 222.00
	0D1507183IS0	30	210	018-E	S8		$ 118.00
	0D1507183LS0	30	210	018-E	S8		$ 156.00
Normally Closed - No Reverse Flow Energized, Nose-In, Side-Out Operation							
	0D1509173AS0	70	350	017-E	S8		$ 266.00
	0D1509173BS0	70	350	017-E	S8		$ 313.00
	0D1509183AS0	40	350	018-E	S8		$ 217.00
	0D1509183BS0	40	350	018-E	S8		$ 255.00
	0D1509213AS0	150	350	021-E	S8		$ 272.00
	0D1509213BS0	150	350	021-E	S8		$ 333.00
Normally Closed - Reverse Flow Energized							
	0D1505173AS0	70	350	017-E	S8		$ 203.00
	0D1505174700	70	350	017-E	S8		$ 245.00
	0D1505182500	20	250	018-E	S8		$ 290.00
	0D1505182501	20	250	018-E	S8		$ 290.00
	0D1505183IS0	30	350	018-E	S8		$ 119.00
	0D1505183L00	30	350	018-E	S8		$ 157.00
	0D1505183AS0	40	350	018-E	S8		$ 168.00
	0D1505183B00	40	350	018-E	S8		$ 190.00
	0D1505213AS0	150	350	021-E	S8		$ 267.00
	0D1505213B00	150	350	021-E	S8		$ 307.00
Normally Closed - Reverse Flow Energized, Nose-In, Side-Out Operation							
	0D1503043AS0	260	350	004	S8		$ 729.00
	0D1503043B00	260	350	004	S8		$ 752.00
	0D1503173AS0	70	350	017-E	S8		$ 259.00
	0D1503173B00	70	350	017-E	S8		$ 311.00
	0D1503183AS0	40	350	018-E	S8		$ 227.00
	0D1503183B00	40	350	018-E	S8		$ 235.00
	0D1503213AS0	150	350	021-E	S8		$ 266.00
	0D1503213B00	150	350	021-E	S8		$ 319.00

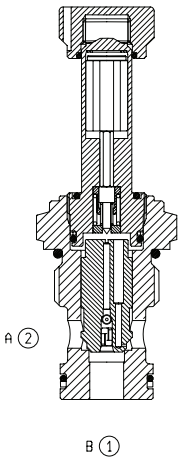
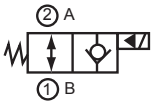
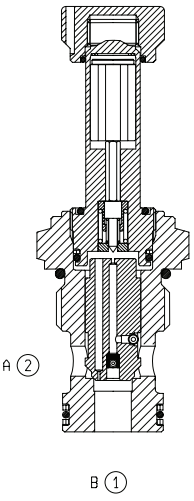
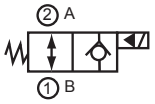
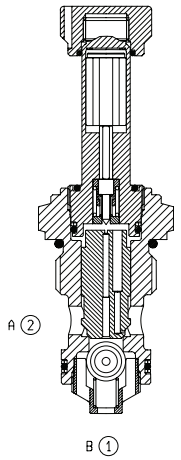
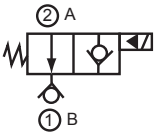
Solenoid Operated Valves

2 Way Pilot Operated Poppet Style

Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Normally Closed - Internal Reverse Check Valve							
	0D1511173AS0	70	350	017-E	S8		$ 272.00
	0D1511173BS0	70	350	017-E	S8		$ 294.00
	0D1511193AS0	40	350	019-E	S8		$ 214.00
	0D1511193BS0	40	350	019-E	S8		$ 235.00
	0D1511213AS0	150	350	021-E	S8		$ 303.00
	0D1511213BS0	150	350	021-E	S8		$ 328.00
Normally Open - No Reverse Flow De-Energized							
	0D1502171AS0	70	350	017-E	S8		$ 212.00
	0D1502171BS0	70	350	017-E	S8		$ 250.00
	0D1502171CS0	70	350	017-E	S8		$ 303.00
	0D1502181AS0	40	350	018-E	S8		$ 192.00
	0D1502181BS0	40	350	018-E	S8		$ 239.00
	0D1502181CS0	40	350	018-E	S8		$ 277.00
	0D1502181IS0	30	350	018-E	S8		$ 130.00
	0D1502181LS0	30	350	018-E	S8		$ 172.00
	0D1502181MS0	30	350	018-E	S8		$ 128.00
	0D1502211AS0	150	350	021-E	S8		$ 244.00
	0D1502211BS0	150	350	021-E	S8		$ 283.00
	0D1502211CS0	150	350	021-E	S8		$ 336.00
	0D1508181IS0	30	210	018-E	S8		$ 130.00
	0D1508181LS0	30	210	018-E	S8		$ 174.00
	0D1508181MS0	30	210	018-E	S8		$ 224.00
Normally Open - No Reverse Flow De-Energized, Nose-In, Side-Out Operation							
	0D1510171AS0	70	350	017-E	S8		$ 275.00
	0D1510171BS0	70	350	017-E	S8		$ 321.00
	0D1510171CS0	70	350	017-E	S8		$ 369.00
	0D1510181AS0	40	350	018-E	S8		$ 237.00
	0D1510181BS0	40	350	018-E	S8		$ 280.00
	0D1510181CS0	40	350	018-E	S8		$ 333.00
	0D1510211AS0	150	350	021-E	S8		$ 288.00
	0D1510211BS0	150	350	021-E	S8		$ 332.00
	0D1510211CS0	150	350	021-E	S8		$ 388.00

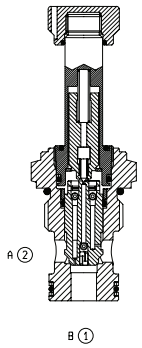
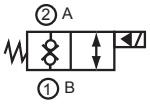
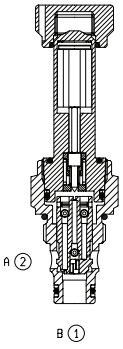
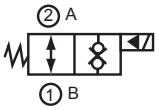
Solenoid Operated Valves

2 Way Pilot Operated Poppet Style

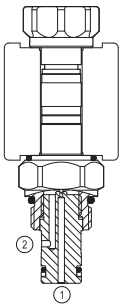
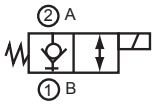
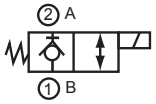
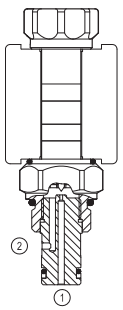
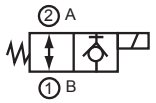
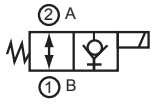
Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Normally Open - Reverse Flow De-Energized							
	0D1506171AS0	70	350	017-E	S8		$ 226.00
	0D1506171BS0	70	350	017-E	S8		$ 292.00
	0D1506171CS0	70	350	017-E	S8		$ 345.00
	0D1506181AS0	40	350	018-E	S8		$ 191.00
	0D1506181BS0	40	350	018-E	S8		$ 243.00
	0D1506181CS0	40	350	018-E	S8		$ 279.00
	0D1506211AS0	150	350	021-E	S8		$ 289.00
	0D1506211BS0	150	350	021-E	S8		$ 351.00
	0D1506211CS0	150	350	021-E	S8		$ 405.00
Normally Open - Reverse Flow De-Energized, Nose-In, Side-Out Operation							
	0D1504041AS0	260	350	004	S8		$ 757.00
	0D1504041BS0	260	350	004	S8		$ 801.00
	0D1504041CS0	260	350	004	S8		$ 838.00
	0D1504171AS0	70	350	017-E	S8		$ 275.00
	0D1504171BS0	70	350	017-E	S8		$ 320.00
	0D1504171CS0	70	350	017-E	S8		$ 369.00
	0D1504181AS0	40	350	018-E	S8		$ 237.00
	0D1504181BS0	40	350	018-E	S8		$ 281.00
	0D1504181CS0	40	350	018-E	S8		$ 326.00
	0D1504211AS0	150	350	021-E	S8		$ 287.00
	0D1504211BS0	150	350	021-E	S8		$ 311.00
	0D1504211CS0	150	350	021-E	S8		$ 388.00
Normally Open - Internal Reverse Check Valve							
	0D1512171AS0	70	350	017-E	S8		$ 277.00
	0D1512171BS0	70	350	017-E	S8		$ 323.00
	0D1512171CS0	70	350	017-E	S8		$ 362.00
	0D1512191AS0	40	350	019-E	S8		$ 237.00
	0D1512191BS0	40	350	019-E	S8		$ 287.00
	0D1512191CS0	40	350	019-E	S8		$ 326.00
	0D1512211AS0	150	350	021-E	S8		$ 329.00
	0D1512211BS0	150	350	021-E	S8		$ 375.00
	0D1512211CS0	150	350	021-E	S8		$ 413.00

Solenoid Operated Valves

2 Way Pilot Operated Double Lock

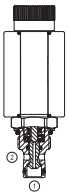
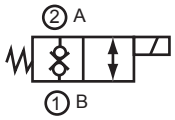
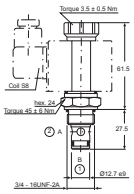
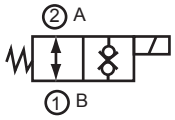
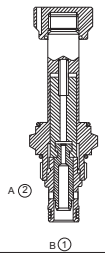
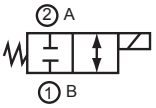
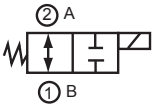
Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Normally Closed							
	0D1531173AS0	70	350	017-E	S8		$ 307.00
	0D1531173BS0	70	350	017-E	S8		$ 345.00
	0D1531183CS0	20	250	018-E	S8		$ 351.00
	0D1531183CS1	20	250	018-E	S8		$ 356.00
	0D1531183AS0	40	350	018-E	S8		$ 248.00
	0D1531183BS0	40	350	018-E	S8		$ 270.00
	0D1531213AS0	150	350	021-E	S8		$ 384.00
	0D1531213BS0	150	350	021-E	S8		$ 426.00
Normally Open							
	0D1532171AS0	70	350	017-E	S8		$ 323.00
	0D1532171BS0	70	350	017-E	S8		$ 391.00
	0D1532171CS0	70	350	017-E	S8		$ 446.00
	0D1532181AS0	40	350	018-E	S8		$ 271.00
	0D1532181BS0	40	350	018-E	S8		$ 319.00
	0D1532181CS0	40	350	018-E	S8		$ 358.00
	0D1532211AS0	150	350	021-E	S8		$405.00
	0D1532211BS0	150	350	021-E	S8		$ 465.00
	0D1532211CS0	150	350	021-E	S8		$ 519.00

2 Way Direct Acting

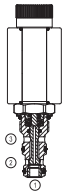
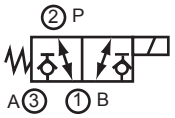
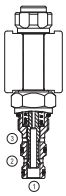
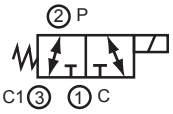
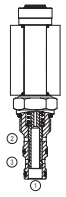
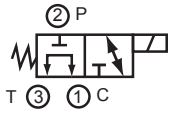
Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Poppet Style - Normally Closed							
	0D1101183100	1.5	350	018-E	S8		$ 113.00
	0D1101183200	1.5	350	018-E	S8		$ 153.00
	0D1103183100	1.5	350	018-E	S8		$ 119.00
	0D1103183200	1.5	350	018-E	S8		$ 156.00
Poppet Style - Normally Open							
	0D1102182000	1.5	350	018-E	S8		$ 152.00
	0D1102182100	1.5	350	018-E	S8		$ 173.00
	0D1102182200	1.5	350	018-E	S8		$ 221.00
	0D1104182000	1.5	350	018-E	S8		$ 132.00
	0D1104182100	1.5	350	018-E	S8		$ 176.00
	0D1104182200	1.5	350	018-E	S8		$ 132.00

Solenoid Operated Valves

2 Way Direct Acting

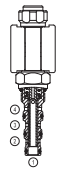
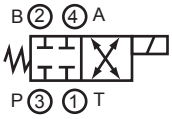
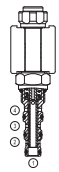
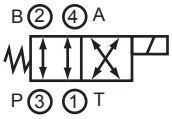
Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Double Lock - Normally Closed							
	0D1131182A00	15	210	018-E	S8		$ 175.00
	0D1131182B00	15	210	018-E	S8		$ 217.00
	0D1131186A00	25	210	018-E	S7		$ 294.00
	0D1131186B00	25	210	018-E	S7		$ 316.00
Double Lock - Normally Open							
	0D1132183000	8	210	018-E	S8		$ 228.00
	0D1132184000	8	210	018-E	S8		$ 304.00
Spool Style							
	0D1120183900	10	210	018-E	S8		$ 271.00
	0D1130183900	10	210	018-E	S8		$ 279.00

3 Way 2-Position Direct Acting

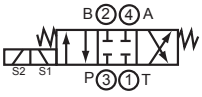
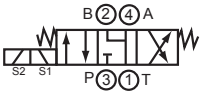
Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Poppet Style							
	0D1301516A00	10	210	051-E	S7		$ 411.00
	0D1301516B00	10	210	051-E	S7		$ 439.00
Spool Style - Selector							
	0D1310511A00	10	210	051-E	S8		$ 187.00
	0D1310511B00	10	210	051-E	S8		$ 256.00
	0D1310771A00	20	210	077-E	S7		$ 261.00
	0D1310771B00	20	210	077-E	S7		$ 316.00
Spool Style - Normally Closed							
	0D1320511A00	10	210	051-E	S8		$ 184.00
	0D1320511B00	10	210	051-E	S8		$ 260.00
	0D1320771A00	20	210	077-E	S7		$ 262.00
	0D1320771B00	20	210	077-E	S7		$ 319.00

Solenoid Operated Valves

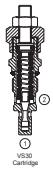
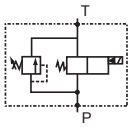
4 Way 2-Postion Direct Acting Spool Style

Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Closed Centre							
	0D1420581A00	10	210	058-E	S8		$ 188.00
	0D1420581B00	10	210	058-E	S8		$ 272.00
	0D1441787000	20	210	078-E	S7		$ 298.00
	0D1441787100	20	210	078-E	S7		$ 355.00
Open Centre							
	0D1410581A00	10	210	058-E	S8		$ 193.00
	0D1410581B00	10	210	058-E	S8		$ 275.00
	0D1440787000	20	210	078-E	S7		$ 303.00
	0D1440787100	20	210	078-E	S7		$ 367.00

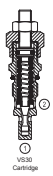
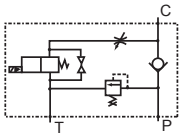
4 Way 3-Position Direct Acting Spool Style

Diagram	Stock No.	Flow l/ min	Pressure Bar	Cavity	Coil	Schematic	List Price
Closed Centre							
	0D1431584400	10	210	058-E	S8		$ 382.00
Motor Spool							
	0D1432584400	10	210	058-E	S8		$ 382.00

Relief Valves with Solenoid Operated By-Pass

Diagram	Stock No.	Flow l/ min	Pressure Bar	Port	Coil	Schematic	List Price
	0L1902073A00	20	250	G 3/8	S8		$ 398.00
	0L1903073A00	30	250	G 1/2	S8		$ 409.00
	0L2002073A00	20	250	G 3/8	S8		$ 428.00
	0L2003073A00	30	250	G 1/2	S8		$ 453.00

Solenoid Operated Valves for Single Acting Cylinders

Diagram	Stock No.	Flow l/ min	Pressure Bar	Port	Coil	Schematic	List Price
	0L5102073A00	25	250	G 3/8	S8		$ 664.00
	0L5103073A00	25	250	G 1/2	S8		$ 688.00
	0L5104073A00	70	250	G 3/4	S8		$ 1298.00
	0L5105073A00	130	250	G 1	S8		$ 1581.00
	0L5202071A00	25	250	G 3/8	S8		$ 705.00
	0L5203071A00	25	250	G 1/2	S8		$ 716.00
	0L5204071A00	70	250	G 3/4	S8		$ 1323.00
	0L5205071A00	130	250	G 1	S8		$ 1605.00

Directional Control Valves

Check Valves

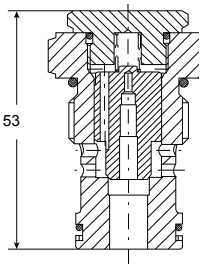
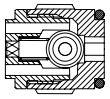
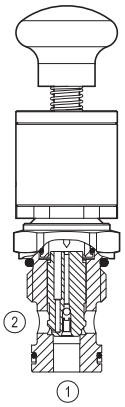
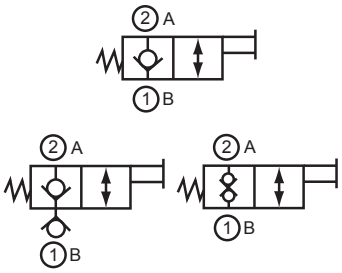
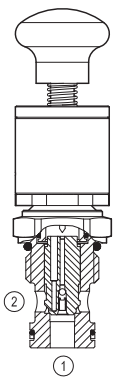
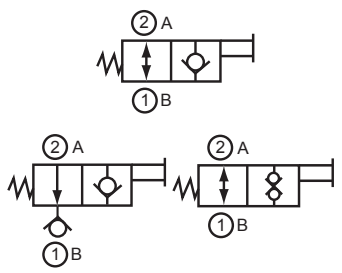
Diagram	Stock No.	Flow l/min	Pressure Bar	Cavity	Schematic	List Price
Poppet Style Cartridge						
	0D4201000401	60	350	017-E		$ 91.00
	0D4201000405	60	350	017-E		$ 91.00
	0D4201000501	100	350	021-E		$ 124.00
	0D4201000505	100	350	021-E		$ 122.00
	0D4201005601	30	350	018-E		$ 69.00
	0D4201005605	30	350	018-E		$ 69.00

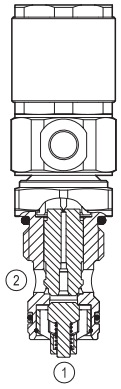
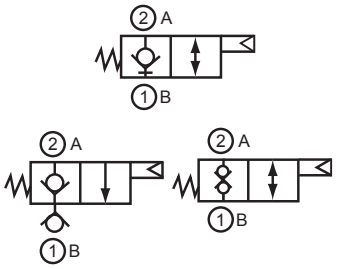
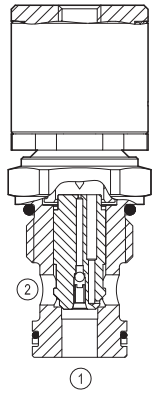
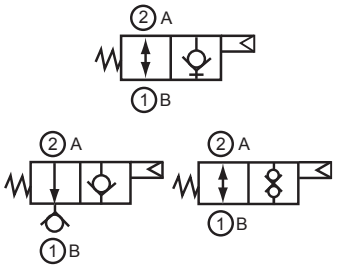
Diagram	Stock No.	Flow l/min	Pressure Bar	Port	Schematic	List Price
Ball Style - Insert Type						
	0D4402000201	30	350	G 3/8		$ 40.00
	0D4402000301	50	350	G 1/2		$ 44.00
	0D4402000401	80	350	G 3/4		$ 58.00
	0D4402000901	15	350	G 1/4		$ 35.00

2 Way Manual

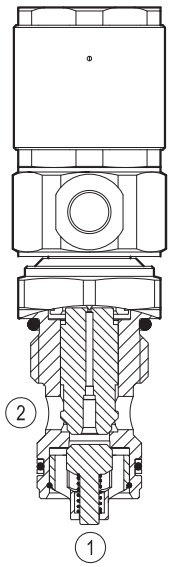
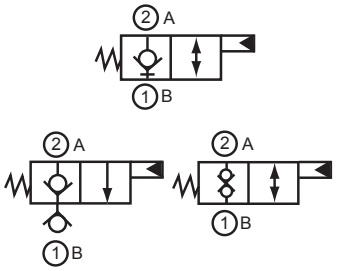
Diagram	Stock No.	Flow l/min	Pressure Bar	Cavity	Schematic	List Price
Normally Closed						
	0D55050004	70	350	017-E		$ 202.00
	0D55050005	150	350	021-E		$ 249.00
	0D55050056	40	350	018-E		$ 169.00
	0D55110004	70	350	017-E		$ 227.00
	0D55110005	150	350	021-E		$ 277.00
	0D55310004	70	350	017-E		$ 274.00
	0D55310005	150	350	021-E		$ 339.00
	0D55310056	40	350	018-E		$ 253.00
Normally Open						
	0D55060004	70	350	017-E		$ 183.00
	0D55060005	150	350	021-E		$ 231.00
	0D55060056	40	350	018-E		$ 152.00
	0D55120004	70	350	017-E		$ 208.00
	0D55120005	150	350	021-E		$ 260.00
	0D55320004	70	350	017-E		$ 257.00
	0D55320005	150	350	021-E		$ 321.00
	0D55320056	40	350	018-E		$ 237.00

Directional Control Valves

2 Way Pneumatic Pilot Operated

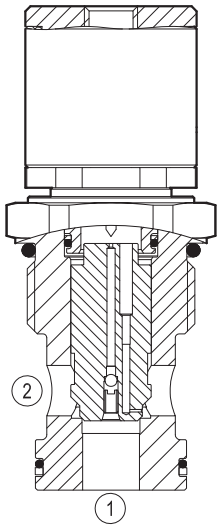
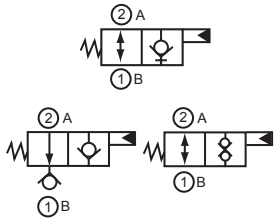
Diagram	Stock No.	Flow l/min	Pressure Bar	Cavity	Schematic	List Price
Normally Closed						
	0D65050414	70	350	017-E		$ 343.00
	0D65050514	150	350	021-E		$ 389.00
	0D65055614	40	350	018-E		$ 316.00
	0D65110414	70	350	017-E		$ 367.00
	0D65110514	150	350	021-E		$ 416.00
	0D65310414	70	350	017-E		$ 415.00
	0D65310514	150	350	021-E		$ 477.00
	0D65315614	40	350	018-E		$ 402.00
Normally Open						
	0D65060414	70	350	017-E		$ 289.00
	0D65060514	150	350	021-E		$ 336.00
	0D65065614	40	350	018-E		$ 262.00
	0D65120414	70	350	017-E		$ 314.00
	0D65120514	150	350	021-E		$ 362.00
	0D65320414	70	350	017-E		$ 360.00
	0D65320514	150	350	021-E		$ 424.00
	0D65325614	40	350	018-E		$ 347.00

2 Way Hydraulic Pilot Operated

Diagram	Stock No.	Flow l/min	Pressure Bar	Cavity	Schematic	List Price
Normally Closed						
	0D75050414	70	350	017-E		$ 345.00
	0D75050434	70	350	017-E		$ 528.00
	0D75050514	150	350	021-E		$ 392.00
	0D75050534	150	350	021-E		$ 568.00
	0D75055614	40	350	018-E		$ 318.00
	0D75055634	40	350	018-E		$ 507.00
	0D75110414	70	350	017-E		$ 370.00
	0D75110434	70	350	017-E		$ 557.00
	0D75110514	150	350	021-E		$ 420.00
	0D75110534	150	350	021-E		$ 582.00
	0D75310414	70	350	017-E		$ 416.00
	0D75310434	70	350	017-E		$ 590.00
	0D75310514	150	350	021-E		$ 481.00
	0D75310534	150	350	021-E		$ 641.00
	0D75315614	40	350	018-E		$ 404.00
	0D75315634	40	350	018-E		$ 578.00

Directional Control Valves

2 Way Hydraulic Pilot Operated

Diagram	Stock No.	Flow l/min	Pressure Bar	Cavity	Schematic	List Price
Normally Open						
	0D75060414	70	350	017-E		$ 292.00
	0D75060434	70	350	017-E		$ 453.00
	0D75060514	150	350	021-E		$ 349.00
	0D75060534	150	350	021-E		$ 473.00
	0D75065614	40	350	018-E		$ 275.00
	0D75065634	40	350	018-E		$ 435.00
	0D75120414	70	350	017-E		$ 314.00
	0D75120434	70	350	017-E		$ 482.00
	0D75120514	150	350	021-E		$ 365.00
	0D75120534	150	350	021-E		$ 524.00
	0D75320414	70	350	017-E		$ 374.00
	0D75320434	70	350	017-E		$ 531.00
	0D75320514	150	350	021-E		$ 426.00
	0D75320534	150	350	021-E		$ 585.00
	0D75325614	40	350	018-E		$ 360.00
	0D75325634	40	350	018-E		$ 497.00

Flow Control Valves

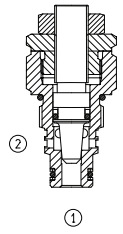
Diagram	Stock No.	Flow l/min	Pressure Bar	Cavity	Schematic	List Price
Flow Restrictors						
	0D21010304	70	350	017-E		$ 102.00
	0D21010305	150	350	021-E		$ 125.00
	0D21010356	40	350	018-E		$ 86.00
	0D21010404	70	350	017-E		$ 101.00
	0D21010405	150	350	021-E		$ 145.00
	0D21010456	40	350	018-E		$ 81.00
	0D2104180300	40	350	018-E		$ 175.00
	0D2104180400	40	350	018-E		$ 219.00

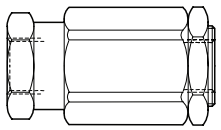
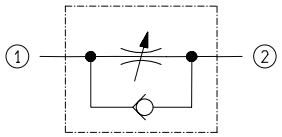
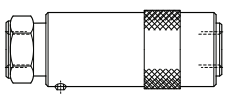
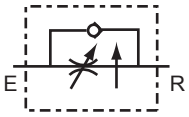
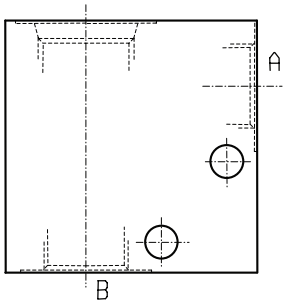
Diagram	Stock No.	Flow l/min	Pressure Bar	Port	Schematic	List Price
Flow Restrictors with Reverse Flow Check						
	0E21010402	25	210	G 3/8		$ 87.00

Diagram	Stock No.	Flow l/min	Pressure Bar	Port	Schematic	List Price
Pressure Compensated Flow Regulator						
	0E22010402	18	210	G 3/8		$ 185.00

Manifolds

Stock No.	Description	Pressure Bar	Cavity	Ports	List Price
EDI Bodies - Aluminium					
0C1009004	2 Way Aluminium	250	018-E	G 3/8	$ 64.00
0C1009009	2 Way Aluminium	250	018-E	G 1/4	$ 64.00
0C1009012	2 Way Aluminium	250	017-E	G 3/4	$ 96.00
0C1009015	2 Way Aluminium	250	017-E	G 1/2	$ 96.00
0C1009017	2 Way Aluminium	250	021-E	G 3/4	$ 129.00
0C1009019	2 Way Aluminium	250	021-E	G 1	$ 134.00
0C1009040	2 Way Aluminium	250	004	G 1	$ 318.00
0C1009041	2 Way Aluminium	250	004	G 1-1/4	$ 318.00
0C1009054	2 Way Aluminium	250	019-E	G 3/8	$ 64.00
0C1009103	2 Way Aluminium	250	019-E	G 1/4	$ 64.00
Stock No.	Description	Pressure Bar	Cavity	Ports	List Price
EDI Bodies - Steel					
0C1009056	2 Way Steel	250	004	G 1-1/4	$ 444.00
0C1009066	2 Way Steel	250	018-E	G 3/8	$ 80.00
0C1009067	2 Way Steel	250	018-E	G 1/4	$ 80.00
0C1009073	2 Way Steel	250	017-E	G 3/4	$ 107.00
0C1009074	2 Way Steel	250	017-E	G 1/2	$ 107.00
0C1009075	2 Way Steel	250	021-E	G 3/4	$ 155.00
0C1009076	2 Way Steel	250	021-E	G 1	$ 155.00
0C1009101	2 Way Steel	250	019-E	G 3/8	$ 80.00
0C1009102	2 Way Steel	250	019-E	G 1/4	$ 80.00
0C1009122	2 Way Steel	250	004	G 1	$ 444.00
Stock No.	Description	Pressure Bar	Cavity	Ports	List Price
EDI Bodies - Aluminium c/w Emergency Screw					
0E150002	2 Way Aluminium	250	018-E	G 3/8	$ 112.00
0E150003	2 Way Aluminium	250	017-E	G 1/2	$ 118.00
0E150004	2 Way Aluminium	250	017-E	G 3/4	$ 118.00
0E150005	2 Way Aluminium	250	021-E	G 1	$ 164.00
0E150009	2 Way Aluminium	250	018-E	G 1/4	$ 112.00
Stock No.	Description	Pressure Bar	Cavity	Ports	List Price
EDI Bodies - Steel c/w Emergency Screw					
0E1500020055	2 Way Steel	250	018-E	G 3/8	$ 129.00
0E1500030055	2 Way Steel	250	017-E	G 1/2	$ 138.00
0E1500040055	2 Way Steel	250	017-E	G 3/4	$ 138.00
0E1500050055	2 Way Steel	250	021-E	G 1	$ 193.00
0E1500090055	2 Way Steel	250	018-E	G 1/4	$ 129.00



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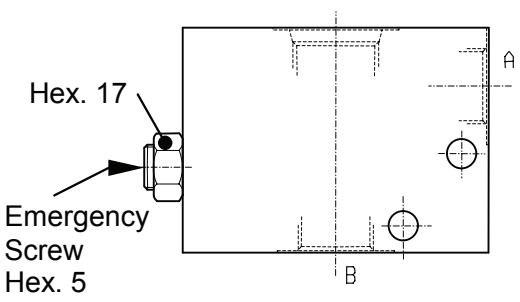


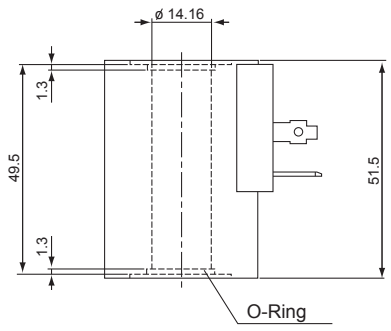
OE150009

Manifolds

Stock No.	Description	Pressure Bar	Cavity	Ports	List Price
3 Way - 4 Way Aluminium Size 06					
0C1009042	3-4 Way Aluminium	250	051-E	G 1-4	$ 114.00
0C1009048	3-4 Way Aluminium	250	051-E	G 3/8	$ 114.00
0C1009047	3-4 Way Aluminium	250	058-E	G 1/4	$ 123.00
0C1009046	3-4 Way Aluminium	250	058-E	G 3/8	$ 123.00
3 Way - 4 Way Aluminium Size 09					
0C1009115	3-4 Way Aluminium	250	077-E	G 3/8	$ 124.00
0C1009116	3-4 Way Aluminium	250	077-E	G 1/4	$ 124.00
0C1009117	3-4 Way Aluminium	250	078-E	G 1/4	$ 134.00
0C1009118	3-4 Way Aluminium	250	078-E	G 3/8	$ 134.00

Continuous Duty Coils

Stock No.	Voltage	Description	Series	List Price
0D02030130OB	12V DC	Coil S3H14 12VDC 21W	S3	$ 46.00
0D02030130OC	24V DC	Coil S3H14 24VDC 21W	S3	$ 46.00
0D02040130OB	12V DC	Coil S2H13 12VDC 22W Class H	S2	$ 46.00
0D02040130OC	24V DC	Coil S2H13 24VDC 22W Class H	S2	$ 46.00
0D02070130OB	12V DC	Coil S2H13 12VDC 22W Class H	S7	$ 58.00
0D02070130OC	24V DC	Coil S2H13 24VDC 22W Class H	S7	$ 58.00
0D02090130OB	12V DC	Coil S5H19 12VDC 23W Class H	S5	$ 58.00
0D02090130OC	24V DC	Coil S5H19 24VDC 23W Class H	S5	$ 58.00
0D02160130OB	12V DC	Coil S8H12.7 12VDC 17W Class F	S8	$ 35.00
0D02160130OC	24V DC	Coil S8H12.7 24VDC 17W Class F	S8	$ 35.00
0D02160130OD	48V DC	Coil S8H12.7 48VDC 17W Class F	S8	$ 35.00
0D02170130OV	24V RAC	Coil S8H12.7 24VRAC 17W Class F	S8	$ 46.00
0D02170130OW	110V RAC	Coil S8H12.7 110VRAC 17W Class F	S8	$ 46.00
0D02170130OZ	220V RAC	Coil S8H12.7 220VRAC 17W Class F	S8	$ 46.00
Note: S8 Coils are designed to operate only with DC power supply. AC service is possible using DIN 43650 connectors with rectifiers.				



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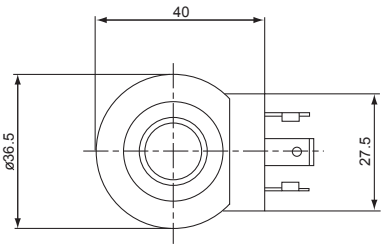

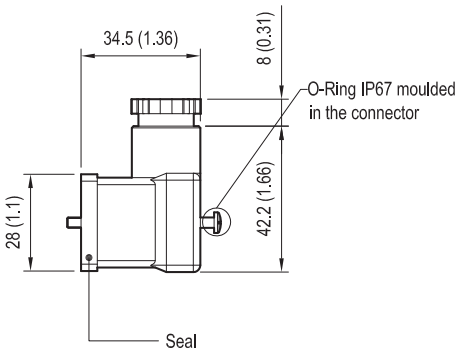

DIN 43650

Section 6

Line Mount Valves

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Line Mount Valves

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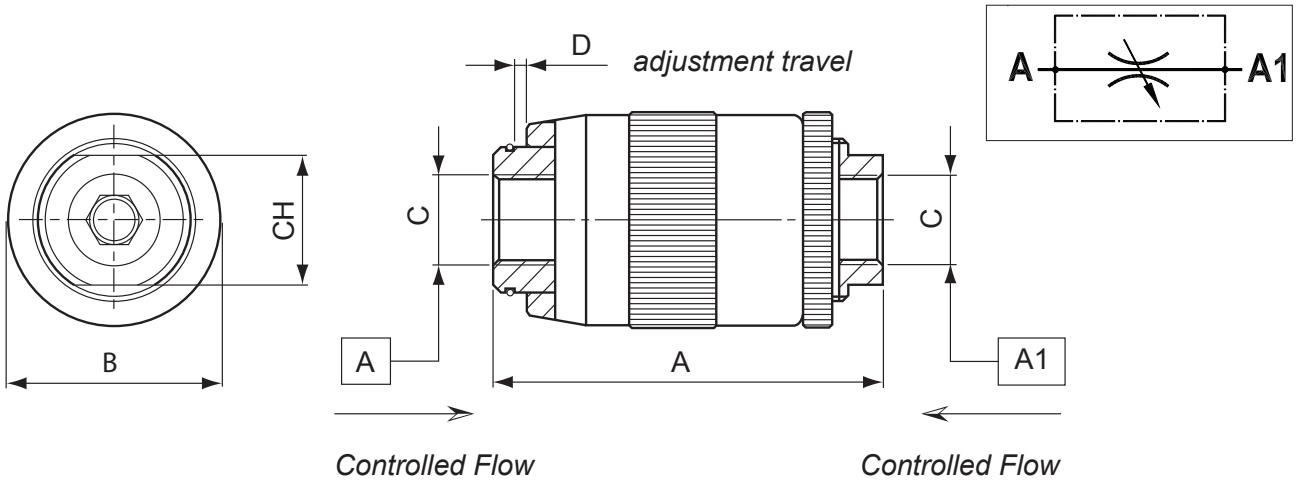
MAKE	MODEL	PAGE

FPM Barrel Type Needle Valves

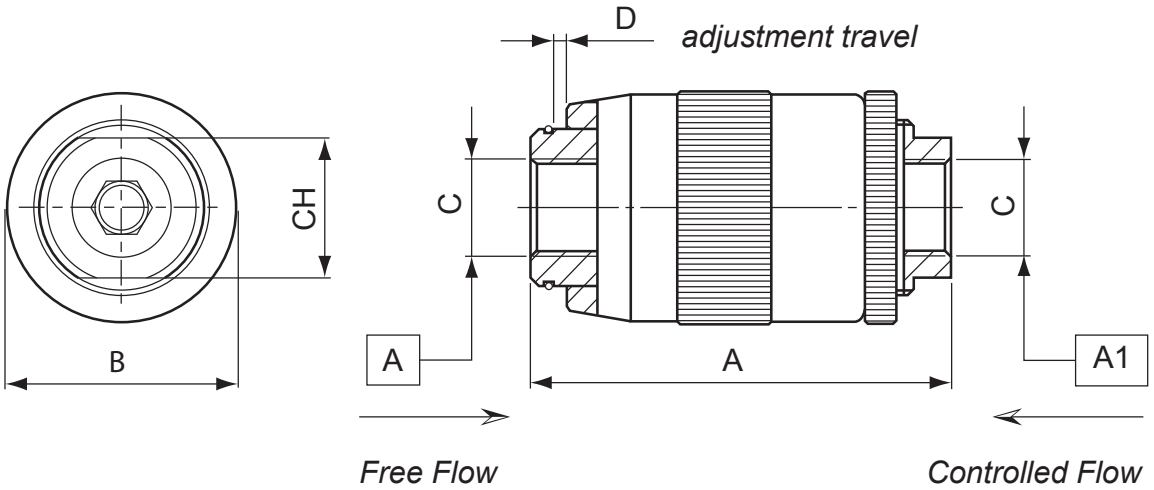
In-Line Adjustable Needle Valves - Barrel Type

Stock No.	Description	Max. Flow Rate	Max. Working Pressure	A mm	B mm	C BSPP	D mm	CH mm	Weight Kg	List Price
FPMB14	Adjustable Needle Valve	12 LPM	350 BAR	62	34	1/4”	4.5	19	0.275	$ 61.00
FPMB38	Adjustable Needle Valve	30 LPM	350 BAR	72	40	3/8”	5.5	24	0.430	$ 77.00
FPMB12	Adjustable Needle Valve	45 LPM	310 BAR	80	46	1/2”	7	30	0.630	$ 93.00
FPMB34	Adjustable Needle Valve	85 LPM	280 BAR	100	54	3/4”	10	36	1.050	$ 115.00
FPMB1	Adjustable Needle Valve	150 LPM	250 BAR	125	65	1”	12	41	1.960	$ 146.00



In-Line Adjustable Needle Valve c/w Reverse Free Flow Check Valve - Barrel Type

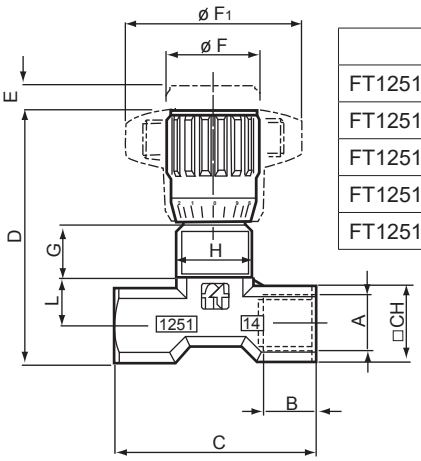
Stock No.	Description	Max. Flow Rate	Max. Working Pressure	A mm	B mm	C BSPP	D mm	CH mm	Weight Kg	List Price
FPMU14	Adjustable Needle Valve c/w Reverse Flow Check	12 LPM	350 BAR	62	34	1/4”	4.5	19	0.275	$ 61.00
FPMU38	Adjustable Needle Valve c/w Reverse Flow Check	30 LPM	350 BAR	72	40	3/8”	5.5	24	0.430	$ 77.00
FPMU12	Adjustable Needle Valve c/w Reverse Flow Check	45 LPM	310 BAR	80	46	1/2”	7	30	0.630	$ 93.00
FPMU34	Adjustable Needle Valve c/w Reverse Flow Check	85 LPM	280 BAR	100	54	3/4”	10	36	1.050	$ 115.00
FPMU1	Adjustable Needle Valve c/w Reverse Flow Check	150 LPM	250 BAR	125	65	1”	12	41	1.960	$ 181.00
FPMU114	Adjustable Needle Valve c/w Reverse Flow Check	210 LPM	230 BAR	135	80	1-1/4”	-	55	3.500	$ 341.00
FPMU112	Adjustable Needle Valve c/w Reverse Flow Check	280 LPM	230 BAR	150	90	1-1/2”	-	62	5.000	$ 466.00



FT1251 ‘Silver Series’ Needle Valves

Inline Adjustable Needle Valves

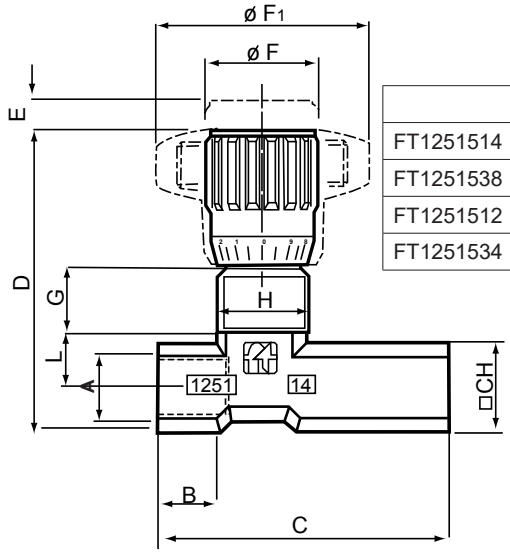
Stock No.	Description	Port Size BSPP	Max. Flow Rate	Max. Working Pressure	List Price
FT1251218	Adjustable Needle Valve	1/8”	10 LPM	210 BAR	$ 69.00
FT1251214	Adjustable Needle Valve	1/4”	15 LPM	210 BAR	$ 67.00
FT1251238	Adjustable Needle Valve	3/8”	30 LPM	210 BAR	$ 81.00
FT1251212	Adjustable Needle Valve	1/2”	50 LPM	210 BAR	$ 115.00
FT1251234	Adjustable Needle Valve	3/4”	80 LPM	210 BAR	$ 236.00



	A	B	C	D	E	F	F1	G	H	L	CH	Wt
FT1251218	1/8” G	9	40	55	4	21.5	40	12	M15x1	9.5	15	0.102
FT1251214	1/4” G	12.5	46	57	4.5	21.5	40	12	M17x1	11	17	0.130
FT1251238	3/8” G	13.5	55	69	7	26	50	12.5	M20x1	15	22	0.240
FT1251212	1/2” G	15	70	82	10	33	70	13	M25x1.5	19	27	0.450
FT1251234	3/4” G	20	91	100	12	38	80	15	M30x1.5	22	34	0.860

Inline Adjustable Needle Valves c/w Reverse Free Flow Check

Stock No.	Description	Port Size BSPP	Max. Flow Rate	Max. Working Pressure	List Price
FT1251514	Adjustable Needle Valve c/w Reverse Flow Check	1/4”	15 LPM	210 BAR	$ 98.00
FT1251538	Adjustable Needle Valve c/w Reverse Flow Check	3/8”	30 LPM	210 BAR	$ 136.00
FT1251512	Adjustable Needle Valve c/w Reverse Flow Check	1/2”	50 LPM	210 BAR	$ 152.00
FT1251534	Adjustable Needle Valve c/w Reverse Flow Check	3/4”	80 LPM	210 BAR	$ 276.00



	A	B	C	D	E	F	F1	G	H	L	CH	Wt
FT1251514	1/4” G	12.5	56	57	4.5	21.5	40	12	M17x1	11	17	0.138
FT1251538	3/8” G	13.5	64.5	69	7	26	50	12.5	M20x1	15	22	0.259
FT1251512	1/2” G	15	87	82	10	33	70	13	M25x1.5	19	27	0.499
FT1251534	3/4” G	20	115	100	12	38	80	15	M30x1.5	22	34	0.979

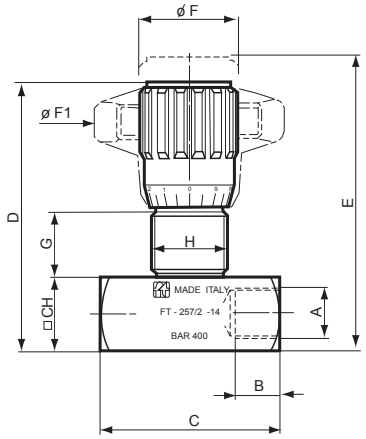
Panel Mount Kits

Stock No.	Description	To Suit	List Price
FT120318	Silver Series Panel Mount Kit	FT1251218	$ 7.00
FT120314	Silver Series Panel Mount Kit	FT1251214/ FT1251514	$ 7.00
FT120338	Silver Series Panel Mount Kit	FT1251238/ FT1251538	$ 7.00
FT120312	Silver Series Panel Mount Kit	FT1251212/ FT1251512	$ 9.00
FT120334	Silver Series Panel Mount Kit	FT1251234/ FT1251534	$ 12.00

FT257 ‘Gold Series’ Needle Valves

Inline Adjustable Needle Valves

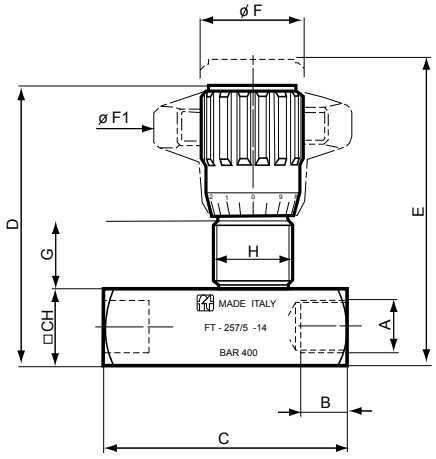
Stock No.	Description	Port Size BSPP	Max. Flow Rate	Max. Working Pressure	Min. Burst Pressure	List Price
FT257218	Adjustable Needle Valve	1/8”	10 LPM	400 BAR	1600 BAR	$ 111.00
FT257214	Adjustable Needle Valve	1/4”	15 LPM	400 BAR	1600 BAR	$ 106.00
FT257238	Adjustable Needle Valve	3/8”	30 LPM	400 BAR	1600 BAR	$ 129.00
FT257212	Adjustable Needle Valve	1/2”	50 LPM	400 BAR	1600 BAR	$ 155.00
FT257234	Adjustable Needle Valve	3/4”	80 LPM	400 BAR	1600 BAR	$ 257.00
FT2572100	Adjustable Needle Valve	1”	150 LPM	320 BAR	1300 BAR	$ 462.00
FT2572114	Adjustable Needle Valve	1-1/4”	200 LPM	320 BAR	1300 BAR	$ 615.00
FT2572112	Adjustable Needle Valve	1-1/2”	200 LPM	320 BAR	1300 BAR	$ 1057.00



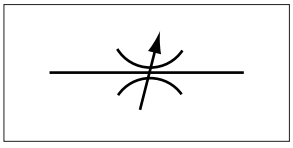
	A	B	C	D	E	F	G	H	CH	Wt
18	1/8” G	9	38	60.5	65.5	21.5	15	M17x1	16	0.110
14	1/4” G	12.5	48	71.5	78.5	26	17	M20x1	20	0.200
38	3/8” G	13.5	59	84.5	93.5	33	19	M25x1.5	25	0.375
12	1/2” G	15	67	97	107	37	20	M30x1.5	30	0.600
34	3/4” G	17	84	120.5	132.5	46	25	M40x1.5	40	1.250
100	1” G	21	105	151.5	167.5	56	34	M50x1.5	50	2.550
114	1-1/4” G	23	120	156.5	172.5	56	34	M50x1.5	55	3.000
112	1-1/2” G	27	150	188	202	108	44	M55x2	65	4.500

Inline Adjustable Needle Valves C/W Reverse Free Flow Check Valve

Stock No.	Description	Port Size BSPP	Max. Flow Rate	Max. Working Pressure	Min. Burst Pressure	List Price
FT257518	Adjustable Needle Valve c/w Reverse Flow Check	1/8”	10 LPM	400 BAR	1600 BAR	$ 140.00
FT257514	Adjustable Needle Valve c/w Reverse Flow Check	1/4”	15 LPM	400 BAR	1600 BAR	$ 125.00
FT257538	Adjustable Needle Valve c/w Reverse Flow Check	3/8”	30 LPM	400 BAR	1600 BAR	$ 141.00
FT257512	Adjustable Needle Valve c/w Reverse Flow Check	1/2”	50 LPM	400 BAR	1600 BAR	$ 207.00
FT257534	Adjustable Needle Valve c/w Reverse Flow Check	3/4”	80 LPM	400 BAR	1600 BAR	$ 282.00
FT2575100	Adjustable Needle Valve c/w Reverse Flow Check	1”	150 LPM	320 BAR	1300 BAR	$ 580.00
FT2575114	Adjustable Needle Valve c/w Reverse Flow Check	1-1/4”	200 LPM	320 BAR	1300 BAR	$ 699.00



	A	B	C	D	E	F	G	H	CH	Wt
18	1/8” G	9	48	60.5	65.5	21.5	15	M17x1	16	0.130
14	1/4” G	12.5	65.5	71.5	78.5	26	17	M20x1	20	0.250
38	3/8” G	13.5	79	84.5	93.5	33	19	M25x1.5	25	0.500
12	1/2” G	15	94	97	107	37	20	M30x1.5	30	0.750
34	3/4” G	17	114	120.5	132.5	46	25	M40x1.5	40	1.600
100	1” G	21	138.5	151.5	167.5	56	34	M50x1.5	50	3.050
114	1-1/4” G	23	157	156.5	172.5	56	34	M50x1.5	55	3.750



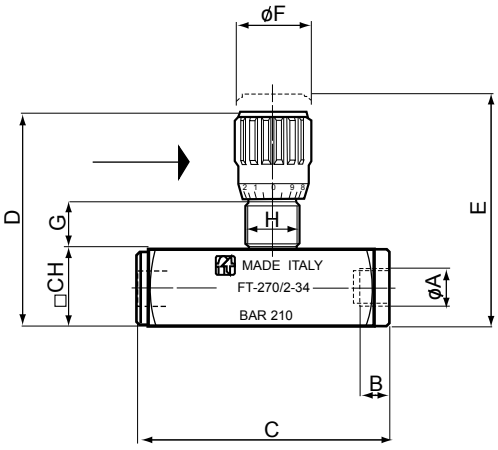
FT270 Pressure Compensated Needle Valves

Pressure Compensated In-Line Adjustable Needle Valves

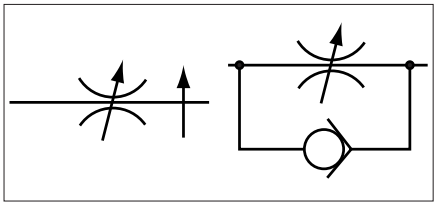
Stock No.	Description	Port Size BSPP	Max. Flow Rate	Max. Working Pressure	Min. Working ΔP	List Price
FT270214	Pressure Compensated Adj. Needle Valve	1/4”	12.5 LPM	210 BAR	5 BAR	$ 352.00
FT270238	Pressure Compensated Adj. Needle Valve	3/8”	25 LPM	210 BAR	7 BAR	$ 386.00
FT270212	Pressure Compensated Adj. Needle Valve	1/2”	50 LPM	210 BAR	10 BAR	$ 519.00
FT270234	Pressure Compensated Adj. Needle Valve	3/4”	80 LPM	210 BAR	10 BAR	$ 669.00
FT2702100	Pressure Compensated Adj. Needle Valve	1”	135 LPM	210 BAR	16 BAR	$ 2001.00

Pressure Compensated In-line Adjustable Needle Valves c/w Free Flow Check Valve

Stock No.	Description	Port Size BSPP	Max. Flow Rate	Max. Working Pressure	Min. Burst Pressure	List Price
FT270514	P.C.Adj. Needle Valve c/w Free Flow Check	1/4”	12.5 LPM	210 BAR	5 BAR	$ 352.00
FT270538	P.C.Adj. Needle Valve c/w Free Flow Check	3/8”	25 LPM	210 BAR	7 BAR	$ 386.00
FT270512	P.C.Adj. Needle Valve c/w Free Flow Check	1/2”	50 LPM	210 BAR	10 BAR	$ 519.00
FT270534	P.C.Adj. Needle Valve c/w Free Flow Check	3/4”	80 LPM	210 BAR	10 BAR	$ 669.00
FT2705100	P.C.Adj. Needle Valve c/w Free Flow Check	1”	135 LPM	210 BAR	16 BAR	$ 2001.00



	A	B	C	D	E	F	G	H	CH	Wt
14	1/4” G	12.5	94	80	87	26	15	M20x1	30	0.58
38	3/8” G	13	110.5	94.5	103	33	17	M25x1.5	35	0.94
12	1/2” G	15.5	137	112	122	37	18	M30x1.5	45	1.83
34	3/4” G	17	163	137	149	46	24	M40x1.5	55	3.35
100	1” G	21	214	173	190	58	30	M50x1.5	70	7.00



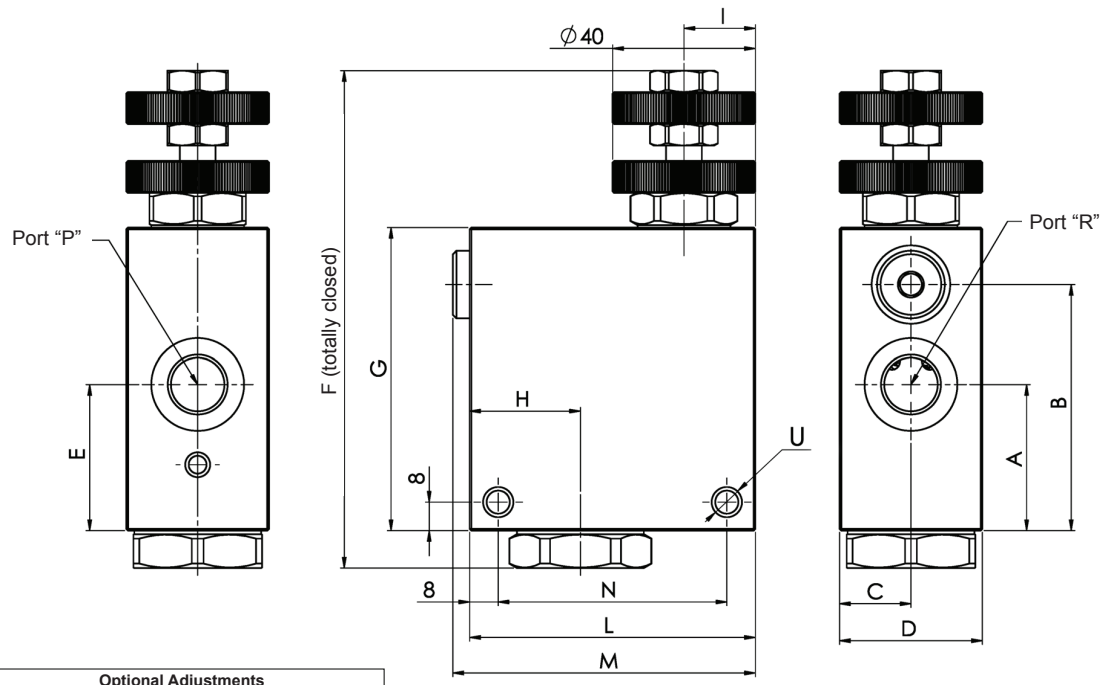
Panel Mount Kits

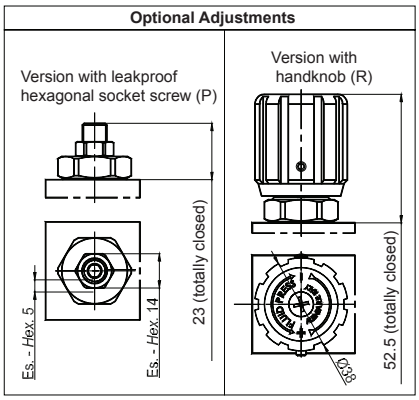
Stock No.	Description	To Suit		List Price
		Size	Model	
FT2023	Gold Series Panel Mount Kit	1/8”	FT257	$ 7.00
FT2024	Gold Series Panel Mount Kit	1/4”	FT257 / FT270	$ 7.00
FT2025	Gold Series Panel Mount Kit	3/8”	FT257 / FT270	$ 9.00
FT2026	Gold Series Panel Mount Kit	1/2”	FT257 / FT270	$ 12.00
FT2028	Gold Series Panel Mount Kit	3/4”	FT257 / FT270	$ 14.00
FT20210	Gold Series Panel Mount Kit	1” & 1-1/4”	FT257 / FT270	$ 15.00

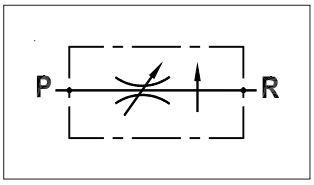
FPRBC Flow Control Valves

Two-Way Pressure Compensated Flow Regulator

Stock No.	Description	Maximum Flow	Maximum Pressure	Port	Body	List Price
FPRBC38G	Flow Control	30 LPM	210 BAR	3/8” BSPP	Aluminium	$ 271.00
FPRBC12G	Flow Control	50 LPM	210 BAR	1/2” BSPP	Aluminium	$ 271.00
FPRBC34G	Flow Control	90 LPM	210 BAR	3/4” BSPP	Aluminium	$ 368.00





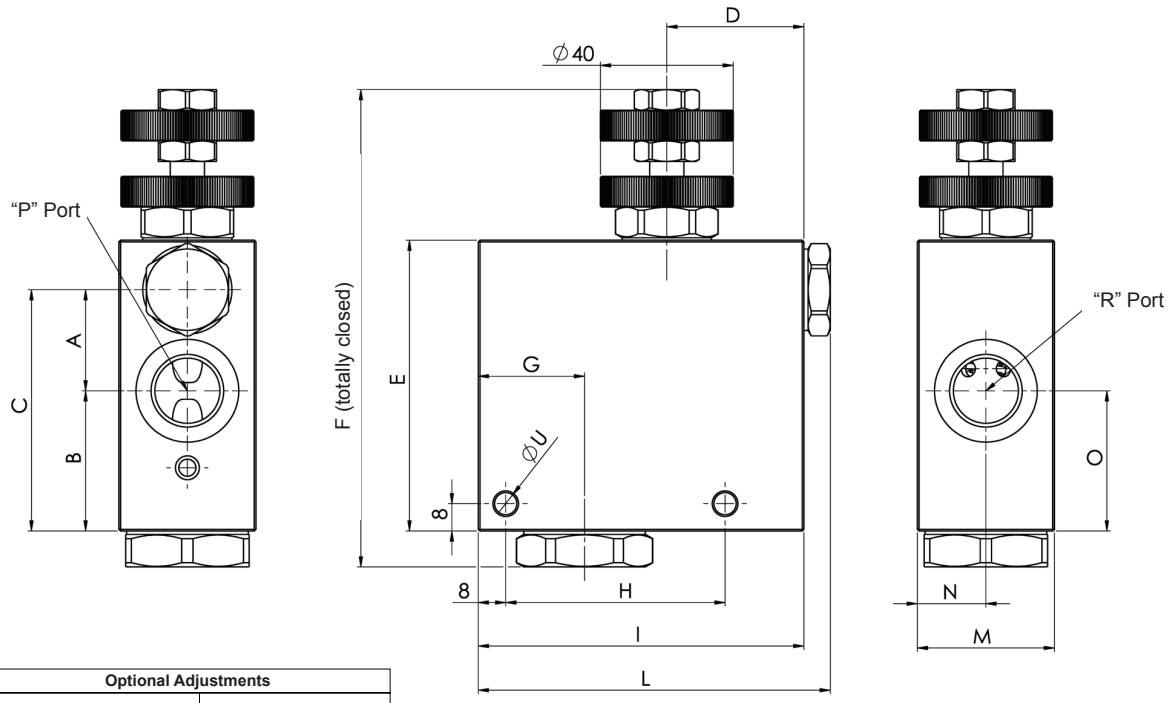


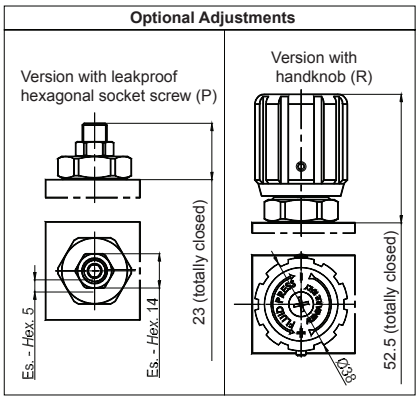
Type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	P BSPP	R BSPP	U mm	Weight Kg
FPRBC 3/8	41	69	20	40	41	139.5	85	31	20	80	85	64	3/8”	3/8”	6.5	0.900
FPRBC 1/2	41	69	20	40	41	139.5	85	31	20	80	85	64	1/2”	1/2”	6.5	0.900
FPRBC 3/4	44	80	25	50	44	154.5	100	35	30	100	105	82	3/4”	3/4”	8.5	1.580

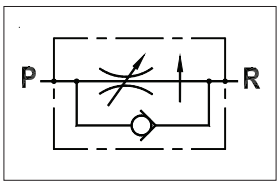
FPRUC Flow Control Valves

Two-Way Pressure Compensated Flow Regulator with Reverse Flow

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
FPRUC38G	Flow Control	30 LPM	210 BAR	3/8” BSPP	Aluminium	$ 349.00
FPRUC12G	Flow Control	50 LPM	210 BAR	1/2” BSPP	Aluminium	$ 349.00
FPRUC34G	Flow Control	90 LPM	210 BAR	3/4” BSPP	Aluminium	$ 445.00







Type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	O mm	P BSPP	R BSPP	U mm	Weight Kg
FPRUC 3/8	29.5	42	71.5	40	85	139.5	31	64	95	102.7	40	20	41	3/8”	3/8”	6.5	1.085
FPRUC 1/2	29.5	42	71.5	40	85	139.5	31	64	95	102.7	40	20	41	1/2”	1/2”	6.5	1.085
FPRUC 3/4	38	42	80	52	100	154.5	35	82	120	128.5	50	25	44	3/4”	3/4”	8.5	1.800

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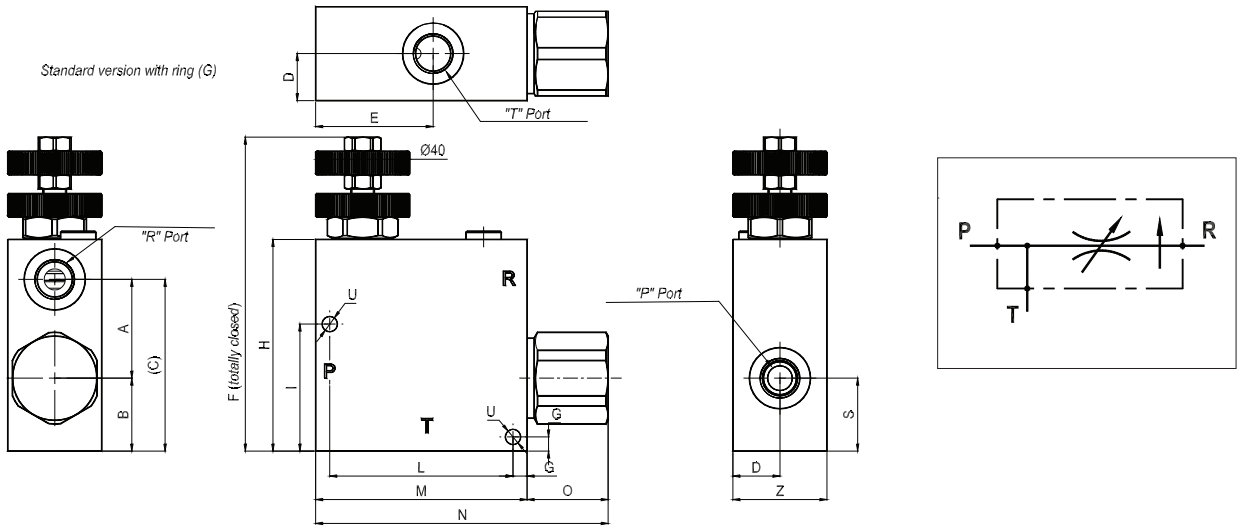
sales@oilsolutions.com.au

FPRF Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow to Tank

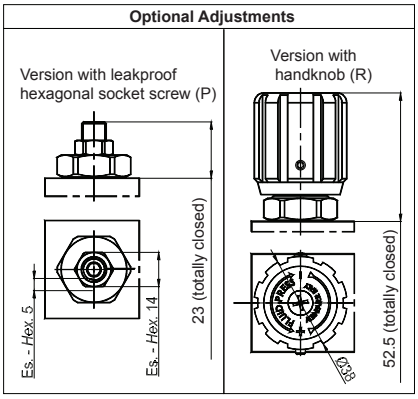
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
FPRF38G	Flow Control	50 LPM	210 BAR	3/8” BSPP	Aluminium	$ 293.00
FPRF38SG	Flow Control	50 LPM	315 BAR	3/8” BSPP	Steel	$ 337.00
FPRF12G	Flow Control	90 LPM	210 BAR	1/2” BSPP	Aluminium	$ 301.00
FPRF12SG	Flow Control	90 LPM	315 BAR	1/2” BSPP	Steel	$ 346.00
FPRF34G	Flow Control	150 LPM	210 BAR	3/4” BSPP	Aluminium	$ 397.00
FPRF34SG	Flow Control	150 LPM	315 BAR	3/4” BSPP	Steel	$ 456.00
FPRF1G	Flow Control	240 LPM	210 BAR	1” BSPP	Aluminium	$ 560.00

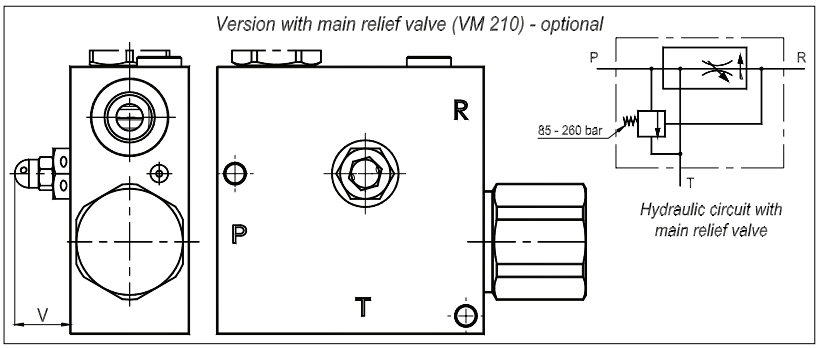


Type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	O mm	P BSPP	R BSPP	S mm	T BSPP	U mm	V mm	Z mm	Weight Kg
FPRF 3/8	42	31	73	20	50	133.5	6	90	54	78	90	126.5	36.5	3/8”	3/8”	31	3/8”	6.5	18.8	40	1.155
FPRF 1/2	42	31	73	20	50	133.5	6	90	54	78	90	126.5	36.5	1/2”	1/2”	31	1/2”	6.5	18.8	40	1.130
FPRF 3/4	50	35	85	25	66	155.5	8	110	63.5	94	110	144.7	34.7	3/4”	3/4”	35	3/4”	8.5	16.8	50	2.000
FPRF 1	63	47	110	35	70	189.5	10	140	90	110	130	150	20	1”	1”	47	1”	10.5	9	70	3.620

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow to Tank with Relief

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
FPRF38GVM210	Flow Control	50 LPM	210 BAR	3/8” BSPP	Aluminium	$ 375.00
FPRF12GVM210	Flow Control	90 LPM	210 BAR	1/2” BSPP	Aluminium	$ 375.00
FPRF34GVM210	Flow Control	150 LPM	210 BAR	3/4” BSPP	Aluminium	$ 475.00
FPRF1GVM210	Flow Control	240 LPM	210 BAR	1” BSPP	Aluminium	$ 645.00

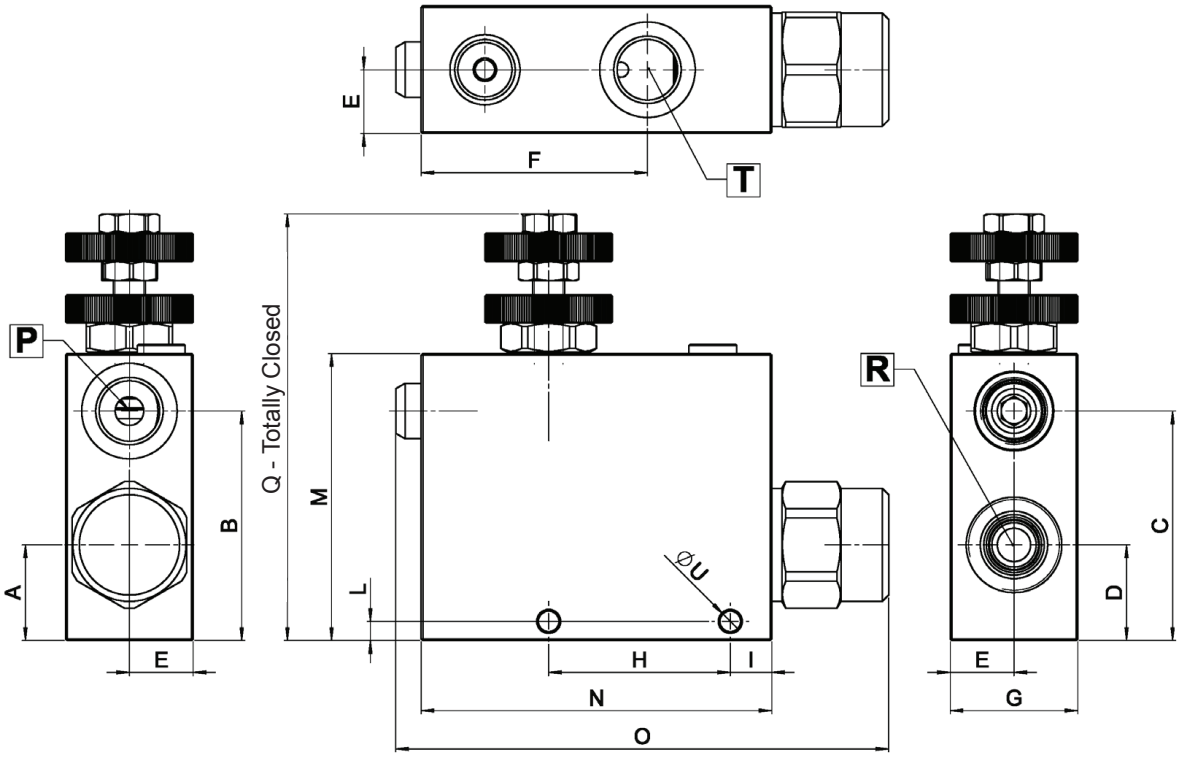


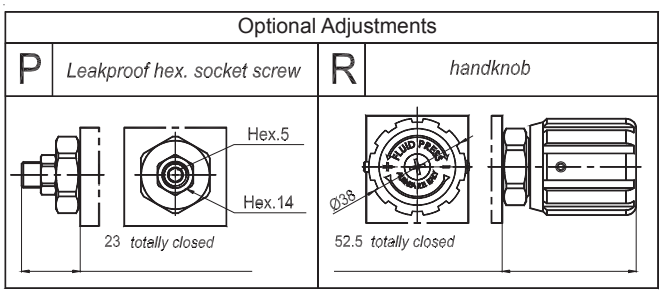


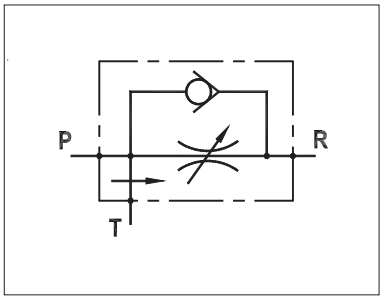
FPRFU Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow to Tank, Free Reverse Flow

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
FPRFU38G	Flow Control	50 LPM	210 BAR	3/8" BSPP	Aluminium	$ 361.00
FPRFU38SG	Flow Control	50 LPM	315 BAR	3/8" BSPP	Steel	$ 411.00
FPRFU12G	Flow Control	90 LPM	210 BAR	1/2" BSPP	Aluminium	$ 361.00
FPRFU12SG	Flow Control	90 LPM	315 BAR	1/2" BSPP	Steel	$ 411.00
FPRFU34G	Flow Control	150 LPM	210 BAR	3/4" BSPP	Aluminium	$ 482.00
FPRFU34SG	Flow Control	150 LPM	315 BAR	3/4" BSPP	Steel	$ 532.00





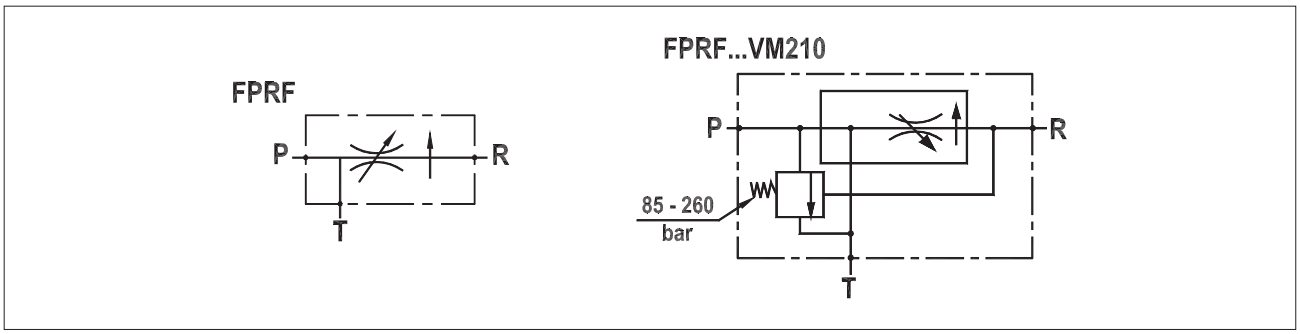


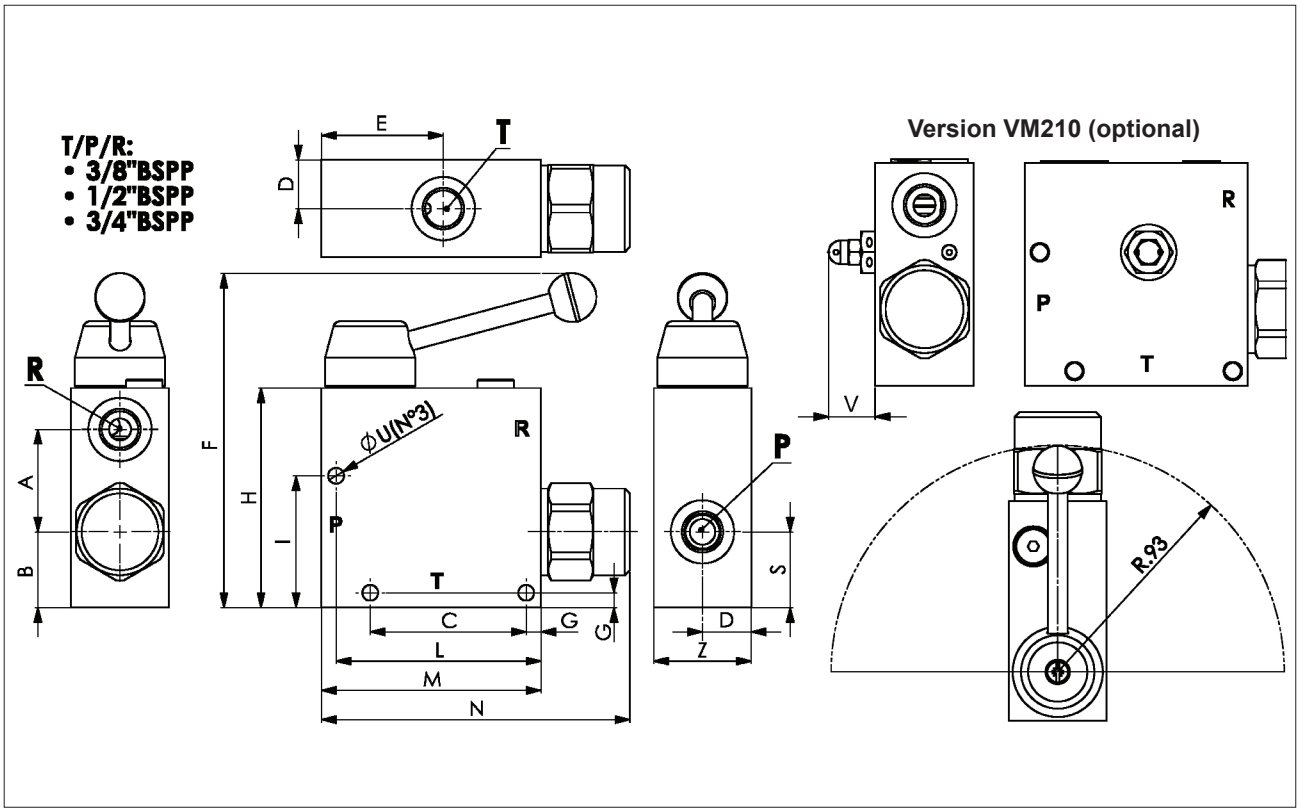
Type	P-T S BSPP	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	O mm	Q mm	Weight Kg
FPRFU 3/8	3/8"	30	72	72	30	20	71	40	57	13	6	90	110	155	134	1.400
FPRFU 1/2	1/2"	30	72	72	30	20	71	40	57	13	6	90	110	155	134	1.350
FPRFU 3/4	3/4	35	87	87	35	25	86	50	70	10	7	110	130	175.5	156	2.200

FPRF**H Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow to Tank

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
FPRF38H	Flow Control	50 LPM	250 BAR	3/8” BSPP	Aluminium	$ 379.00
FPRF12H	Flow Control	90 LPM	250 BAR	1/2” BSPP	Aluminium	$ 379.00
FPRF34H	Flow Control	150 LPM	210 BAR	3/4” BSPP	Aluminium	$ 520.00



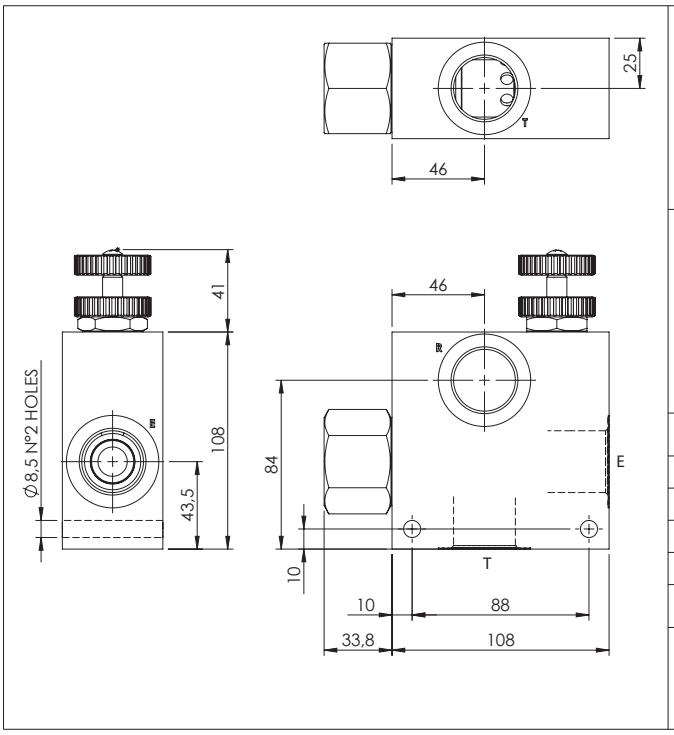


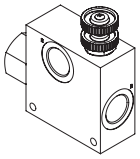
Type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	P BSPP	R BSPP	S mm	T BSPP	U mm	V mm	Z mm	Weight Kg
FPRF 3/8	42	31	64	20	50	133.5	6	90	54	78	90	126.5	3/8”	3/8”	31	3/8”	6.5	18.8	40	1.155
FPRF 1/2	42	31	64	20	50	133.5	6	90	54	78	90	126.5	1/2”	1/2”	31	1/2”	6.5	18.8	40	1.130
FPRF 3/4	50	35	88	25	66	137	8	110	63.5	94	110	144.7	3/4”	3/4”	35	3/4”	8.5	16.8	50	2.000

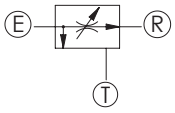
MFCT Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow to Tank

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
MF000035	Flow Control	280 LPM	210 BAR	1" BSPP	Aluminium	$ 500.00
MF000037	Flow Control	280 LPM	210 BAR	1" BSPP	Aluminium	$ 530.00







SPECIFICATIONS

Max. operating pressure:	see table
Rated flow:	280 l/min
Manifold:	Aluminium/Steel
Weight:	1,97/4.08 kg

ADJUSTMENT OPTIONS

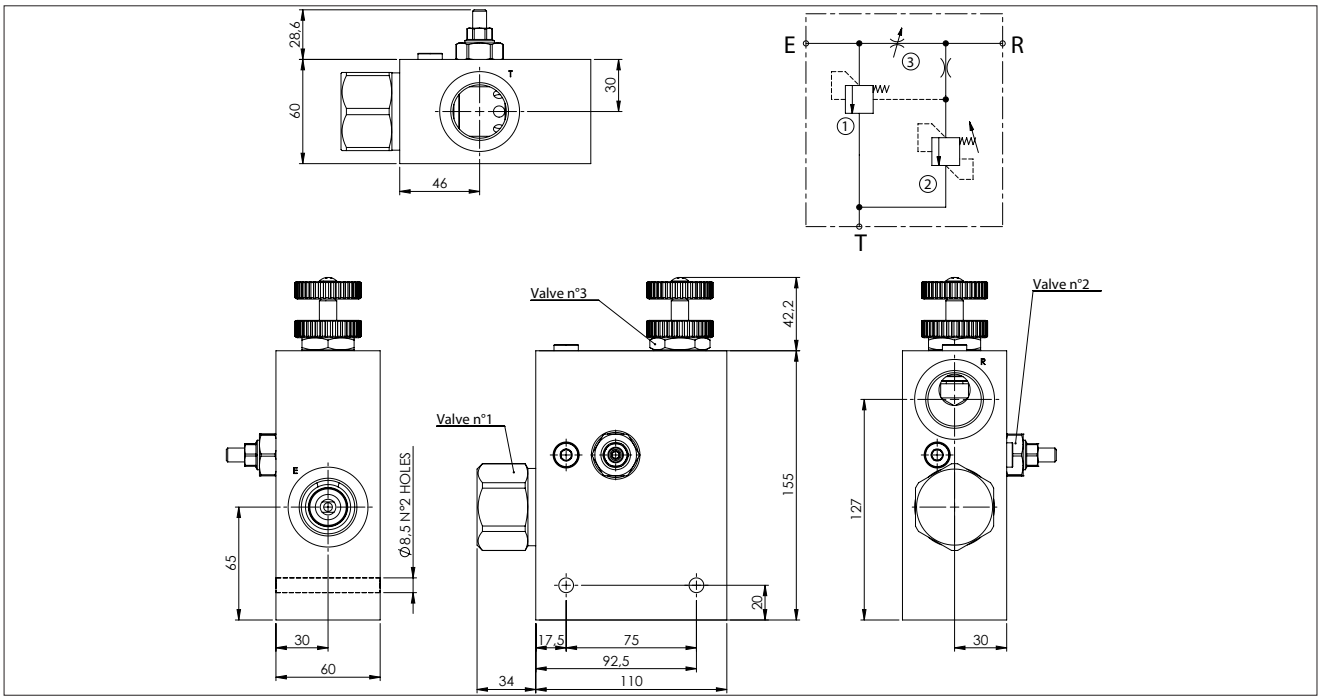
Handknob and locknut

Screw and locknut

Graduated handknob

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow to Tank with Relief

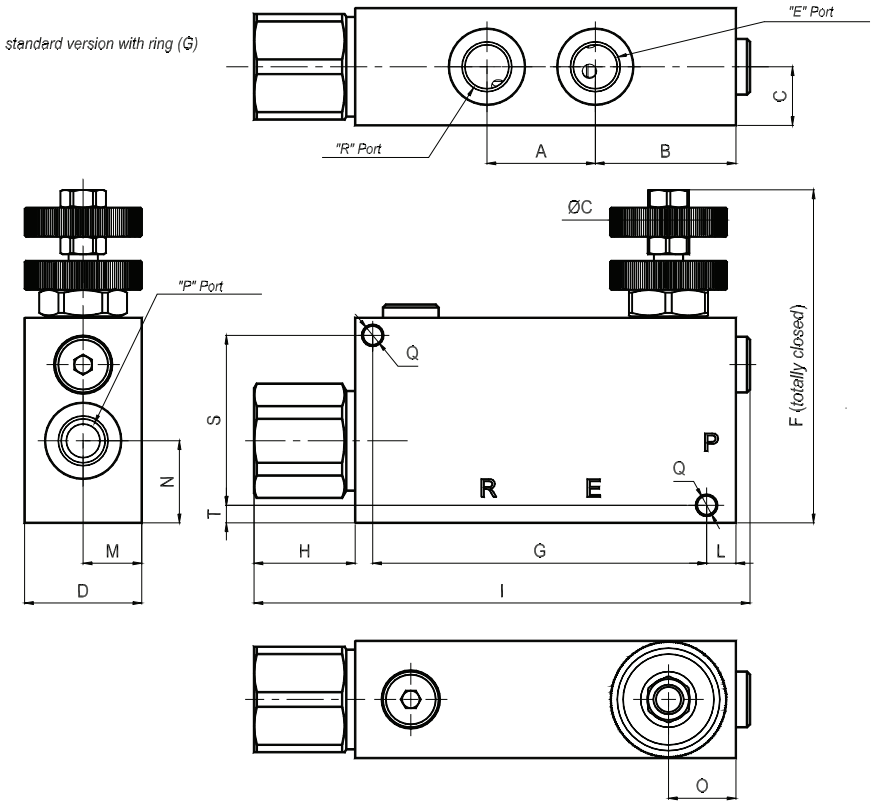
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
MF000116	Flow Control	280 LPM	210 BAR	1" BSPP	Aluminium	$ 790.00

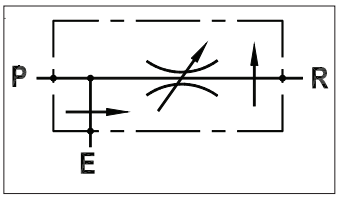


FPVP Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow in Pressure

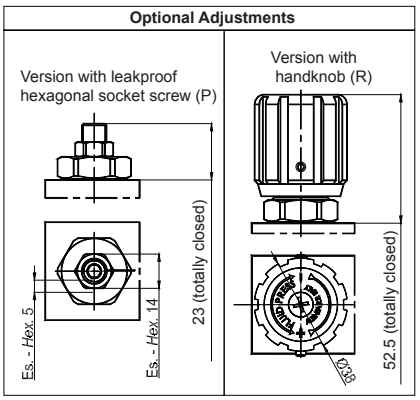
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
FPVP38G	Flow Control	50 LPM	210 BAR	3/8” BSPP	Aluminium	$ 314.00
FPVP38SG	Flow Control	50 LPM	315 BAR	3/8” BSPP	Steel	$ 350.00
FPVP12G	Flow Control	90 LPM	210 BAR	1/2” BSPP	Aluminium	$ 314.00
FPVP12SG	Flow Control	90 LPM	315 BAR	1/2” BSPP	Steel	$ 352.00
FPVP34G	Flow Control	150 LPM	210 BAR	3/4” BSPP	Aluminium	$ 535.00
FPVP34SG	Flow Control	150 LPM	315 BAR	3/4” BSPP	Steel	$ 615.00
B1308020100	Flow Control	380 LPM	230 BAR	1” BSPP	Aluminium	$ 676.00





Type	Weight Kg		
	P	R	G
FPVP 3/8	1.200	1.300	1.250
FPVP 3/8 S	2.750	2.850	2.800
FPVP 1/2	1.200	1.300	1.250
FPVP 1/2 S	2.700	2.800	2.750
FPVP 3/4	2.156	2.256	2.206
FPVP 3/4 S	4.656	4.756	4.706
B1308	N/A	N/A	5.000

Optional Adjustments

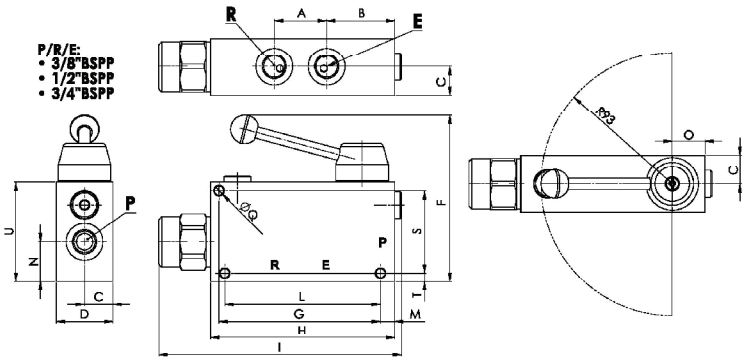


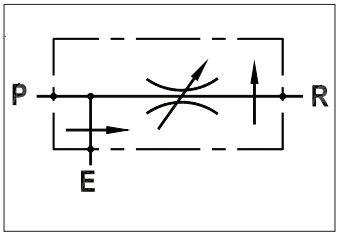
Type	A mm	B mm	C mm	D mm	E BSPP	F mm	G mm	H mm	I mm	L mm	M mm	N mm	O mm	P BSPP	Q mm	R BSPP	S mm	T mm
FPVP 3/8	37	48	20	40	3/8”	113.7	114	36.5	171.3	10	20	28	23	3/8”	6.5	3/8”	58	6
FPVP 1/2	37	48	20	40	1/2”	113.7	114	36.5	171.3	10	20	28	23	1/2”	6.5	1/2”	58	6
FPVP 3/4	44	57	25	50	3/4”	139.5	135	34.5	194.8	10	25	35	25	3/4”	8.5	3/4”	74	8
B1308	57	46	35	70	1”	168	130	54	204	10	35	-	28	1”	8.5	1”	-	10

FPVP**H Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow in Pressure

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
FPVP38H	Flow Control	50 LPM	210 BAR	3/8” BSPP	Aluminium	$ 435.00
FPVP38SH	Flow Control	50 LPM	315 BAR	3/8” BSPP	Steel	$ 485.00
FPVP12H	Flow Control	90 LPM	210 BAR	1/2” BSPP	Aluminium	$ 435.00
FPVP12SH	Flow Control	90 LPM	315 BAR	1/2” BSPP	Steel	$ 485.00
FPVP34H	Flow Control	150 LPM	210 BAR	3/4” BSPP	Aluminium	$ 550.00



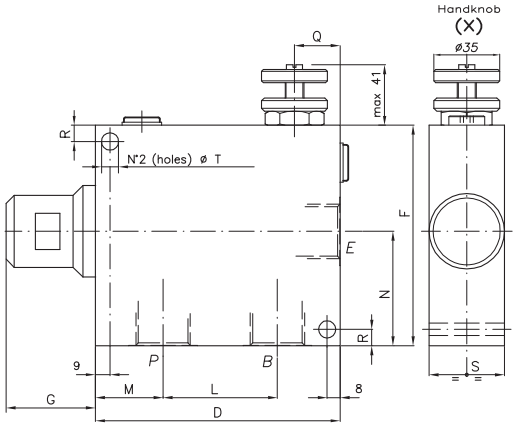


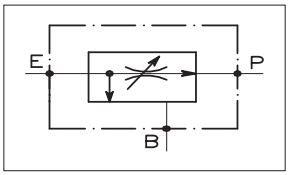
Type	A mm	B mm	C mm	D mm	E-P-R BSPP	F mm	G mm	H mm	I mm	L mm	M mm	N mm	O mm	Q mm	S mm	T mm	U mm	Weight Kg - Al	Weight Kg - St
FPVP 3/8	37	48	20	40	3/8”	113.7	114	130	171.3	10	10	28	23	6.5	58	6	70	1.250	2.800
FPVP 1/2	37	48	20	40	1/2”	113.7	114	130	171.3	10	10	28	23	6.5	58	6	70	1.250	2.750
FPVP 3/4	44	57	25	50	3/4”	117.5	135	155	194.8	-	10	35	25	8.5	74	8	90	2.205	4.705

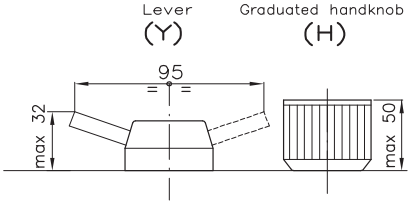
004*** Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators - Excess Flow in Pressure

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
0042370Y0	Flow Control	250 LPM	210 BAR	1” BSPP	Aluminium	$ 447.00
0042450Y0	Flow Control	380 LPM	210 BAR	1-1/4” BSPP	Aluminium	$ 447.00







Valve Type	D	F	G	L	M	N	Q	R	S	T	Port Size E-P-B	Rated Size DN	QP l/min - GPM	QE l/min - GPM
237	150	135	55	70	41.5	70	28	10	60	10.5	1” BSPP	14	150-40	250-66
245	150	135	55	70	41.5	70	28	10	60	10.5	1-1/4” BSPP	16	210-55	380-100

RD Flow Control Valves

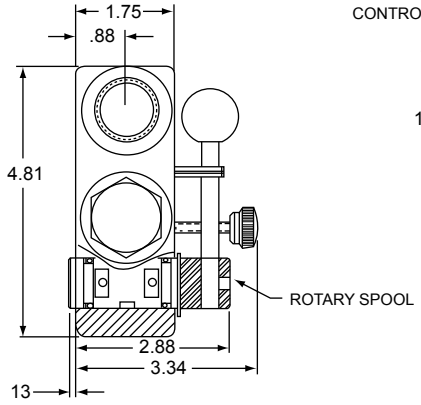
Pressure Compensated Adjustable Flow Control Valves

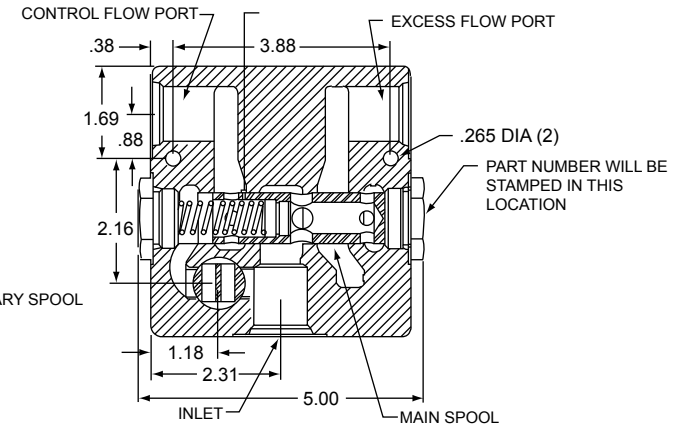
Stock No.	Description	Flow Range	Port Size	List Price
RD19504	Pressure Compensated Adjustable Flow Control Valve	0 - 4 GPM	1/2" NPT	$ 400.00
RD19508	Pressure Compensated Adjustable Flow Control Valve	0 - 8 GPM		$ 400.00
RD195016	Pressure Compensated Adjustable Flow Control Valve	0 - 16 GPM		$ 400.00
RD19758	Pressure Compensated Adjustable Flow Control Valve	0 - 8 GPM	3/4" NPT	$ 400.00
RD197516	Pressure Compensated Adjustable Flow Control Valve	0 - 16 GPM		$ 400.00
RD197530	Pressure Compensated Adjustable Flow Control Valve	0 - 30 GPM		$ 400.00

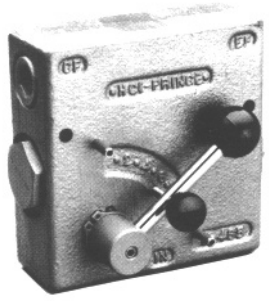
Pressure Compensated Adjustable Flow Control Valves with Built-In Relief Valve

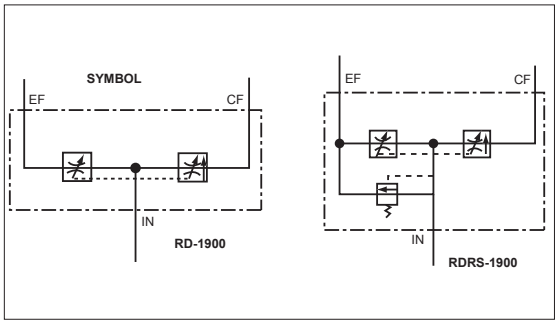
Stock No.	Description	Flow Range	Port Size	List Price
RDRS19504	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 4 GPM	1/2" NPT	$ 490.00
RDRS19508	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 8 GPM		$ 490.00
RDRS195016	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 16 GPM		$ 490.00
RDRS19758	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 8 GPM	3/4" NPT	$ 490.00
RDRS197516	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 16 GPM		$ 490.00
RDRS197530	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 30 GPM		$ 490.00

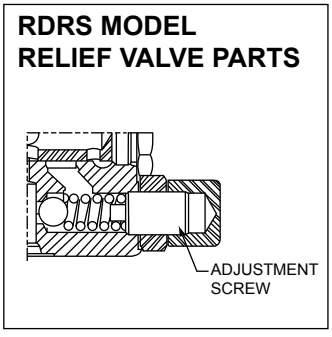
MODEL RD-1900











The PRINCE valve model RD-1900 is a pressure compensated adjustable flow control valve. By rotating the handle the flow out the 'CF' or controlled flow port can be varied within the range given in the chart above. Any remaining flow is bypassed to the 'EF' or excess flow port. This flow can be used to power another circuit or can be returned to tank. Once the controlled flow is set it will remain nearly constant with variations in pressure on either the controlled or excess flow ports. Please note: If during operation the controlled flow port is blocked the valve will compensate in such a way as to shut off flow to the excess port.

These valves can be used a restrictive flow control by plugging the excess flow port. The PRINCE valve models RDRS-1900 has a built in adjustable pressure relief preset at 1500 PSI @ 10 GPM. For this model, the excess flow port must be connected to tank.

It should be noted that whenever these or any valve is used to bypass or restrict flow heat will be generated. Steps may be required to keep oil temperature from becoming too high.

FC Flow Control Valves

Pressure Compensated Adjustable Flow Control Valves

Stock No.	Description	Flow Range	Port Size	List Price
FC5138	Pressure Compensated Adjustable Flow Control Valve	0 - 8 GPM	3/8” NPT	$ 276.00
FC5112	Pressure Compensated Adjustable Flow Control Valve	0 - 16 GPM	1/2” NPT	$ 276.00
FC5134	Pressure Compensated Adjustable Flow Control Valve	0 - 30 GPM	3/4” NPT	$ 276.00
FC518	Pressure Compensated Adjustable Flow Control Valve	0 - 8 GPM	3/4” UN	$ 276.00
FC5110	Pressure Compensated Adjustable Flow Control Valve	0 - 16 GPM	7/8” UN	$ 276.00
FC5112SAE	Pressure Compensated Adjustable Flow Control Valve	0 - 30 GPM	1-1/16” UN	$ 276.00

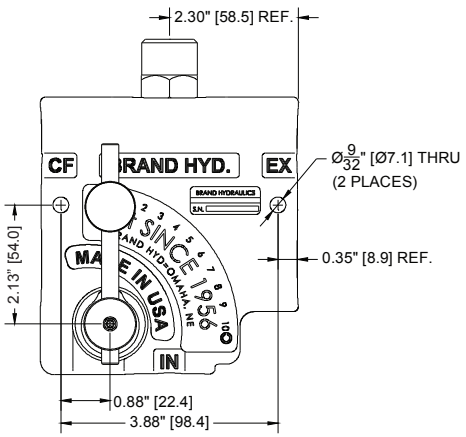
Pressure Compensated Adjustable Flow Control Valves with Built-In Relief Valve

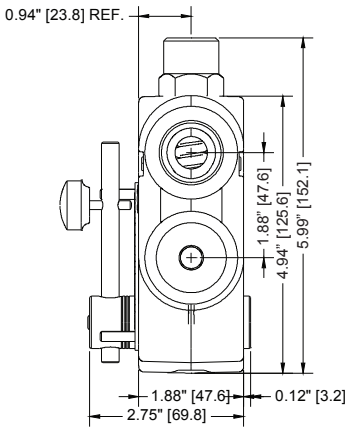
Stock No.	Description	Flow Range	Port Size	List Price
FCR5138	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 8 GPM	3/8” NPT	$ 308.00
FCR5112	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 16 GPM	1/2” NPT	$ 308.00
FCR5134	Pressure Compensated Adjustable Flow Control Valve with Relief Valve	0 - 30 GPM	3/4” NPT	$ 308.00

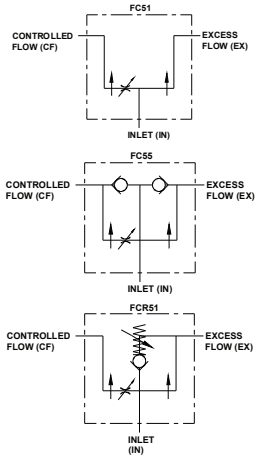
Pressure Compensated Adjustable Flow Control Valves with Free Return Check

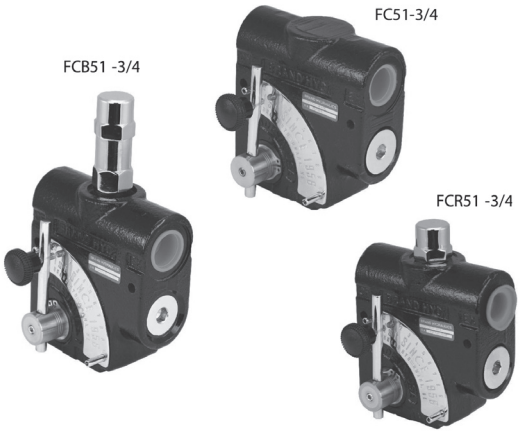
Stock No.	Description	Flow Range	Port Size	List Price
FC5538	Pressure Compensated Adjustable Flow Control Valve with Check	0 - 8 GPM	3/8” NPT	$ 276.00
FC551237	Pressure Compensated Adjustable Flow Control Valve with Check	0 - 8 GPM	1/2” NPT	$ 276.00
FC5512	Pressure Compensated Adjustable Flow Control Valve with Check	0 - 16 GPM	1/2” NPT	$ 276.00
FC5534	Pressure Compensated Adjustable Flow Control Valve with Check	0 - 30 GPM	3/4” NPT	$ 276.00

FCR51 AND FC51 DIMENSIONAL DATA (inches & [millimeters]):
(FCR51 SHOWN):









EFC Electric Flow Controls

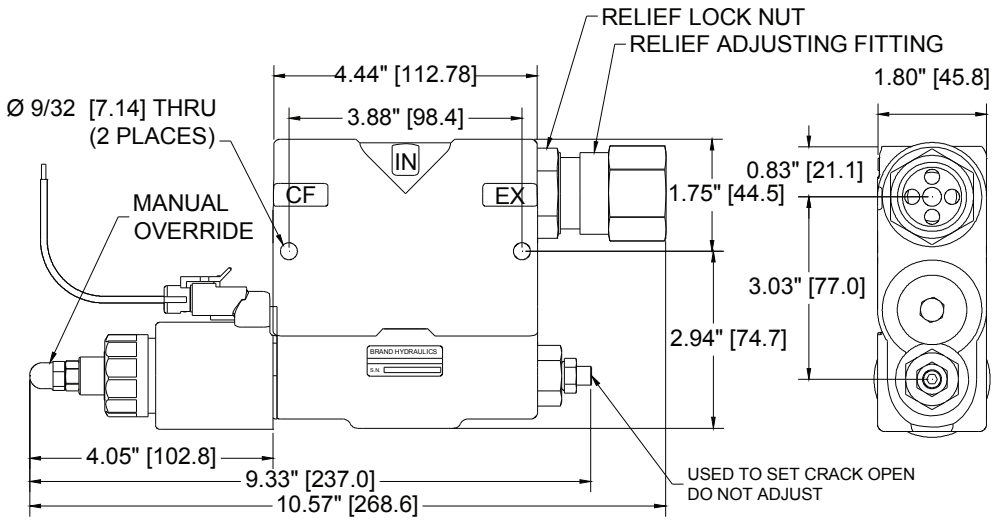
Pressure Compensated Adjustable Flow Control Valves - Electronically Adjustable

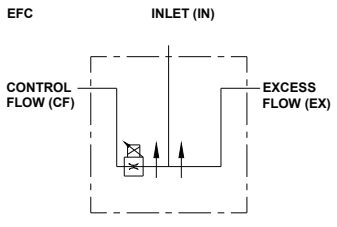
Stock No.	Description	Flow Range	Port Size	List Price
EFC1210122P	Pressure Compensated Adjustable Flow Control Valve - 2 Port 12V DC	0 - 10 GPM	1-1/16" UN	$ 990.00
EFC121012	Pressure Compensated Adjustable Flow Control Valve - 3 Port 12V DC	0 - 10 GPM		$ 990.00
EFC121512	Pressure Compensated Adjustable Flow Control Valve - 3 Port 12V DC	0 - 15 GPM		$ 990.00
EFC122012	Pressure Compensated Adjustable Flow Control Valve - 3 Port 12V DC	0 - 20 GPM	1-1/16" UN	$ 990.00
EFC122512	Pressure Compensated Adjustable Flow Control Valve - 3 Port 12V DC	0 - 25 GPM		$ 990.00
EFC123024	Pressure Compensated Adjustable Flow Control Valve - 3 Port 24V DC	0 - 30 GPM		$ 990.00

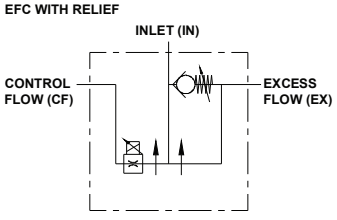
Pressure Compensated Adjustable Flow Control Valves with Free Return Check - E.A.

Stock No.	Description	Flow Range	Port Size	List Price
EFCC121012	Pressure Compensated Adjustable Flow Control Valve with Check 12V DC	0 - 10 GPM	1-1/16" UN	$ 1100.00
EFCC121512	Pressure Compensated Adjustable Flow Control Valve with Check 12V DC	0 - 15 GPM		$ 1100.00
EFCC122012	Pressure Compensated Adjustable Flow Control Valve with Check 12V DC	0 - 20 GPM		$ 1100.00
EFCC122024	Pressure Compensated Adjustable Flow Control Valve with Check 24V DC	0 - 20 GPM	1-1/16" UN	$ 1100.00
EFCC122512	Pressure Compensated Adjustable Flow Control Valve with Check 12V DC	0 - 25 GPM		$ 1100.00
EFCC123012	Pressure Compensated Adjustable Flow Control Valve with Check 12V DC	0 - 30 GPM		$ 1100.00

DIMENSIONAL DATA (EFC WITH RELIEF SHOWN):







EFC12-10-12

EFC12 -15-12R22

FC Manual Flow Controls

Pressure Compensated Adjustable Flow Control Valves

Stock No.	Description	Flow Range	Port Size	List Price
FC5116	Pressure Compensated Adjustable Flow Control Valve	0 - 50 GPM	1-5/16” UN	$ 1900.00
FC5124	Pressure Compensated Adjustable Flow Control Valve	0 - 90 GPM	1-7/8” UN	$ 1900.00

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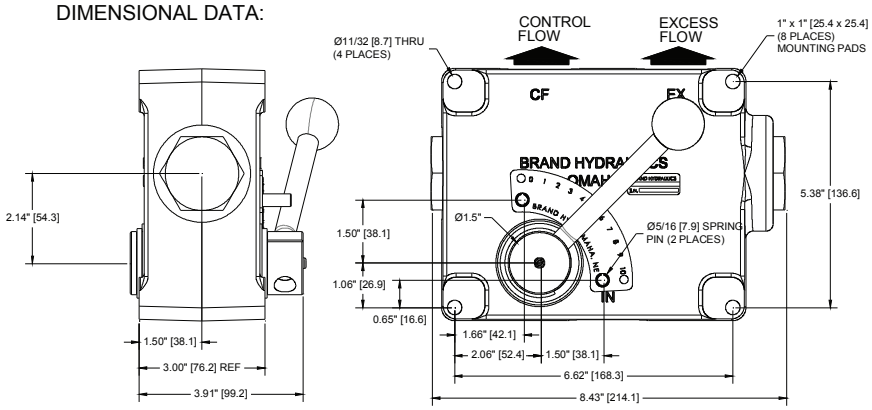

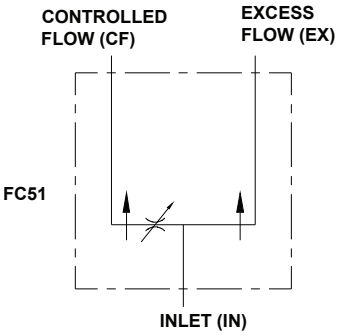

LEFC Electric Flow Controls

Pressure Compensated Adjustable Flow Control Valves - Electronically Adjustable

Stock No.	Description	Flow Range	Port Size	List Price
LEFC164512DM	Pressure Compensated Adjustable Flow Control Valve - 12V DC	0 - 45 GPM	1-5/16” UN	$ 2400.00
LEFC164524DM	Pressure Compensated Adjustable Flow Control Valve - 24V DC	0 - 45 GPM		$ 2400.00
LEFC165512DM	Pressure Compensated Adjustable Flow Control Valve - 12V DC	0 - 55 GPM		$ 2400.00
LEFC165524DM	Pressure Compensated Adjustable Flow Control Valve - 24V DC	0 - 55 GPM		$ 2400.00

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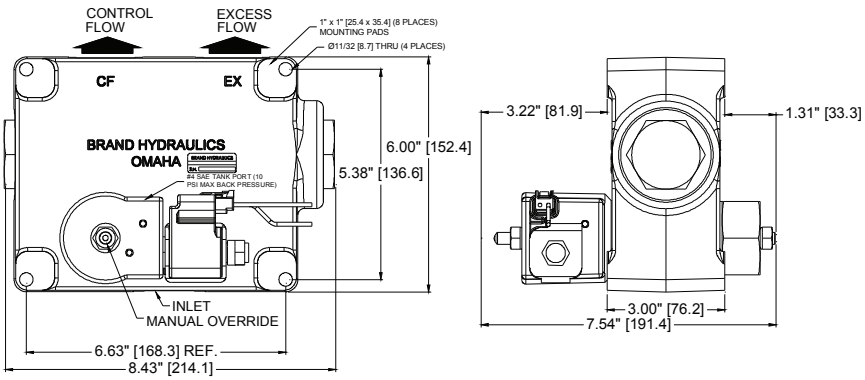
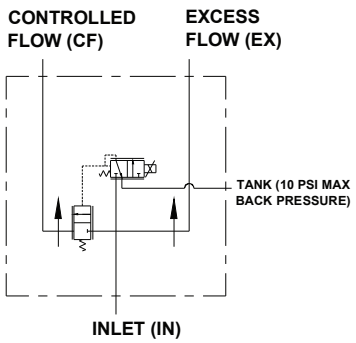
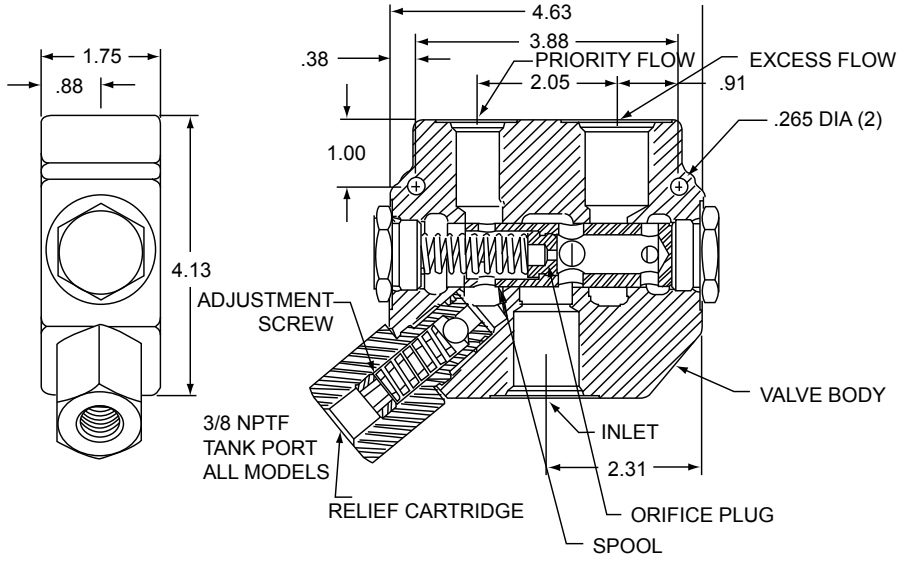


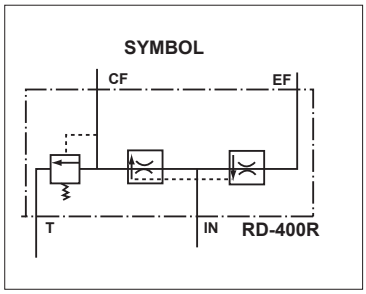


RD Flow Control Valves

Pressure Compensated Fixed Priority Flow Divider Valve

Stock No.	Description	Max. Inlet Flow	Priority Flow	Port Sizes UN O'Ring		List Price
				Inlet/Excess	Priority	
RD412R3	Fixed Flow Priority Divider with Priority Pressure Relief	30 GPM	3 GPM	1-1/16"	3/4"	$ 405.00

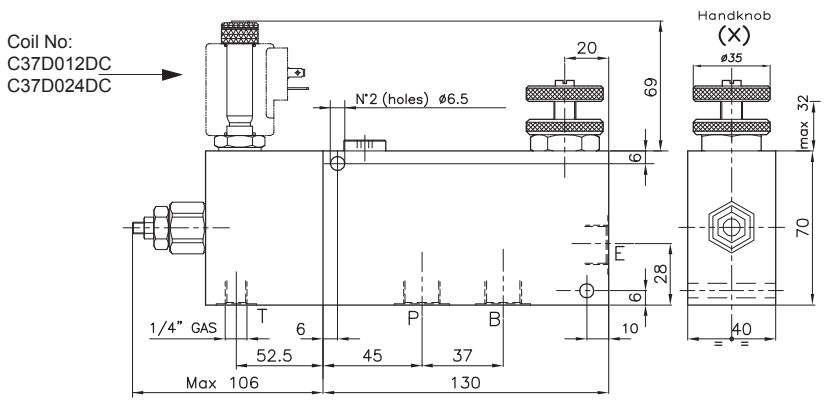




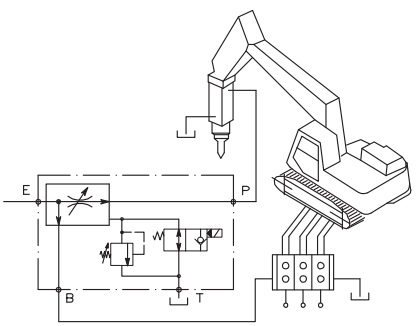
Hammer Flow Control Valves

Three-Way Type Pressure Compensated Flow Regulators - Solenoid Controlled Priority Flow

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
0041940X0	Flow Control	55 LPM	350 BAR	3/8" BSPP	Steel	$ 510.00
0041960X0	Flow Control	90 LPM	350 BAR	1/2" BSPP	Steel	$ 535.00
C37D012DC	12V DC Coil					$ 58.00
C37D024DC	24V DC Coil					$ 58.00



TYPICAL CIRCUIT EXAMPLE

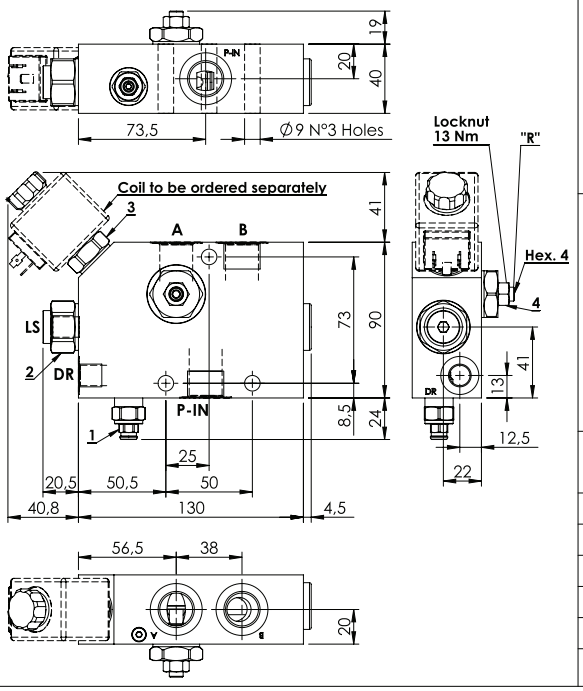


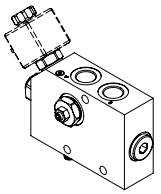
Hammer Flow Control Valves

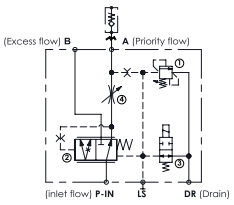
Three-Way Type Pressure Compensated Flow Regulators - Solenoid Controlled Priority Flow

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
MF000053	Flow Control	100 LPM	200 BAR	1/2" BSPP	Steel	$ 1173.00
MF000054	Flow Control	100 LPM	350 BAR	1/2" BSPP	Steel	$ 1173.00
MF000055	Flow Control	200 LPM	200 BAR	3/4" BSPP	Steel	$ 1464.00
MF000056	Flow Control	200 LPM	350 BAR	3/4" BSPP	Steel	$ 1464.00

MF000053



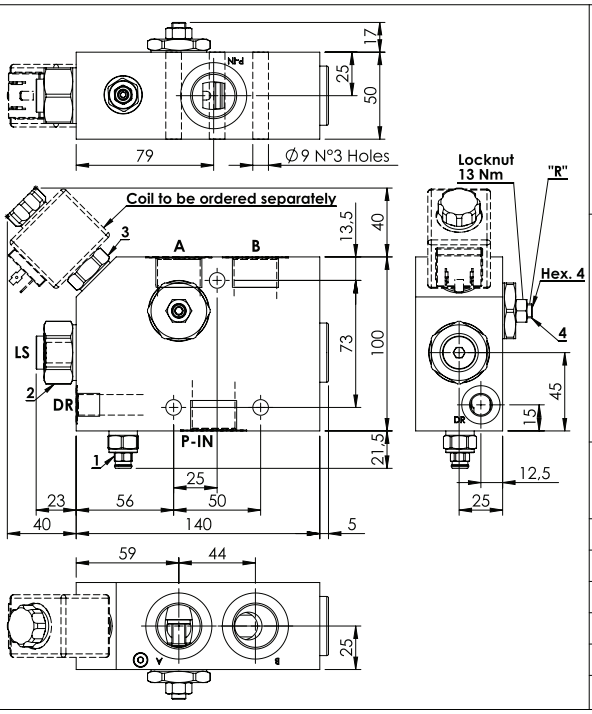


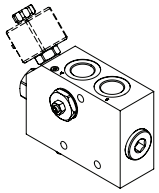


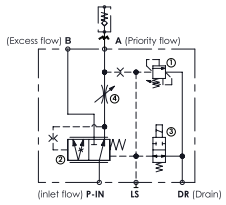
SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	100 l/min
Regulated Flow:	1,5 - 85 l/min
Manifold:	Zinc plated steel
Weight:	3,4 kg
Coil:	M7

MF000055







SPECIFICATIONS

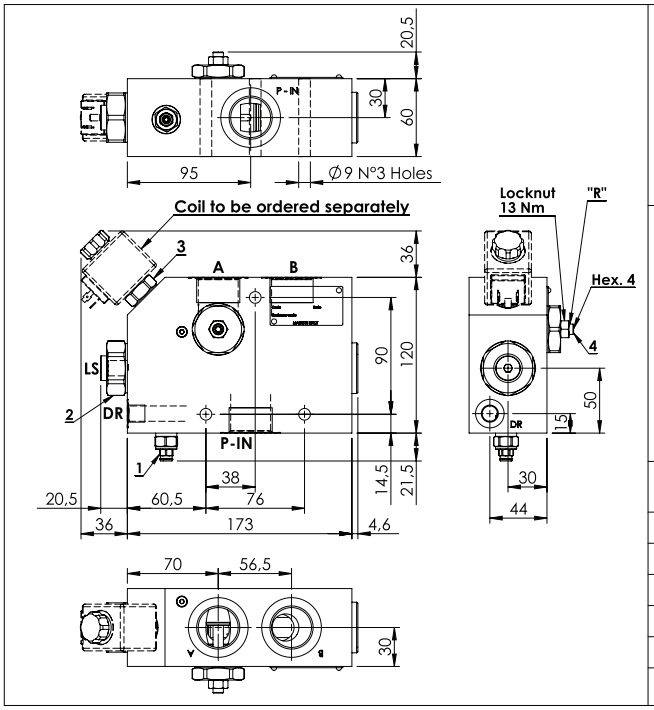
Max. operating pressure:	350 bar
Rated flow:	200 l/min
Regulated Flow:	1,5 - 140 l/min
Manifold:	Zinc plated steel
Weight:	4,9 kg
Coil:	M7 type

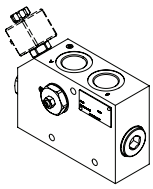
Hammer Flow Control Valves

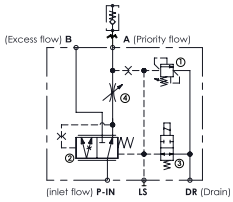
Three-Way Type Pressure Compensated Flow Regulators - Solenoid Controlled Priority Flow

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
MF000057	Flow Control	300 LPM	200 BAR	1" BSPP	Steel	$ 2114.00
MF000058	Flow Control	300 LPM	350 BAR	1" BSPP	Steel	$ 2114.00
MF000071	Flow Control	400 LPM	200 BAR	1-1/4" BSPP	Steel	$ 2529.00
MF000073	Flow Control	400 LPM	350 BAR	1-1/4" BSPP	Steel	$ 2529.00

MF000057

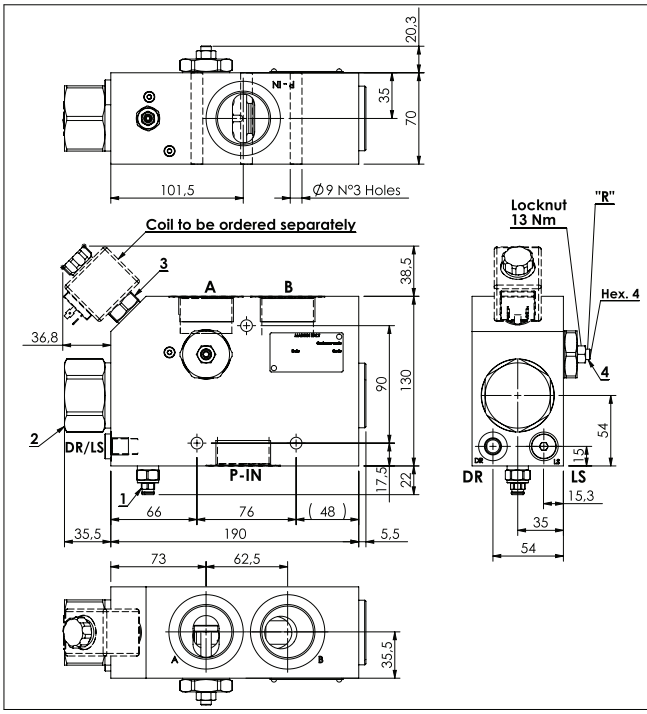


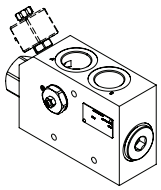


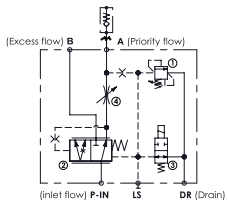


SPECIFICATIONS	
Max. operating pressure:	350 bar
Rated flow:	300 l/min
Regulated Flow:	1,5 - 220 l/min
Manifold:	Zinc plated steel
Weight:	8,6 kg
Coil:	M7 type

MF000071







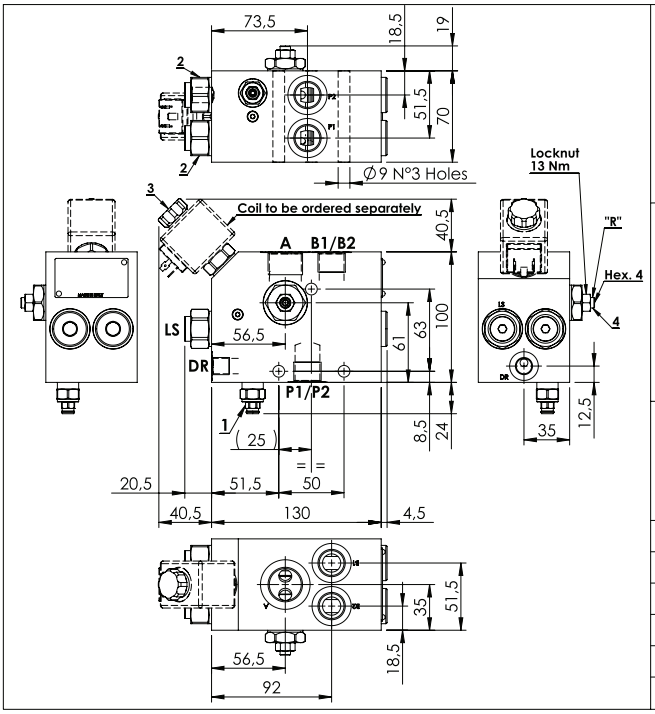
SPECIFICATIONS	
Max. operating pressure:	350 bar
Rated flow:	400 l/min
Regulated Flow:	1,5 - 300 l/min
Manifold:	Zinc plated steel
Weight:	11,4 kg
Coil:	M7

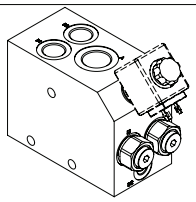
Hammer Flow Control Valves

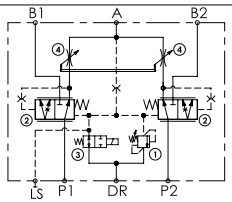
Two Pump System, Three-Way Type Pressure Compensated Flow Regulators
Solenoid Controlled Priority Flow

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
MF000066	Flow Control	100 LPM	200 BAR	1/2" BSPP	Steel	$ 2151.00
MF000077	Flow Control	100 LPM	350 BAR	1/2" BSPP	Steel	$ 2151.00
MF000064	Flow Control	200 LPM	200 BAR	3/4" BSPP	Steel	$ 2558.00
MF000065	Flow Control	200 LPM	350 BAR	3/4" BSPP	Steel	$ 2558.00

MF000066



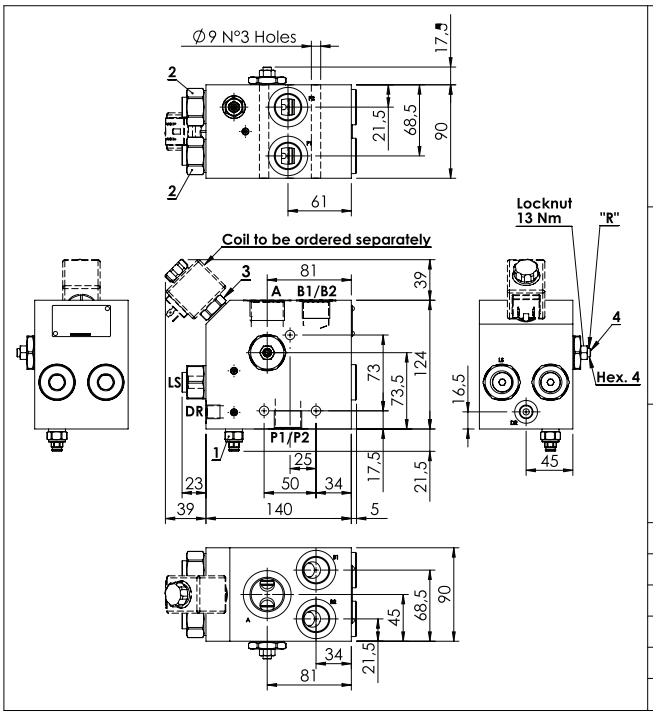


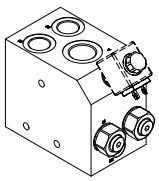


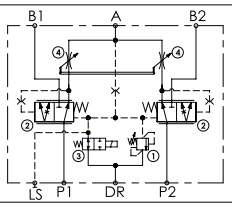
SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	2 x 100 l/min
Regulated Flow:	3 - 150 l/min
Manifold:	Zinc plated steel
Weight:	6,5 kg
Coil:	M7 type

MF000064







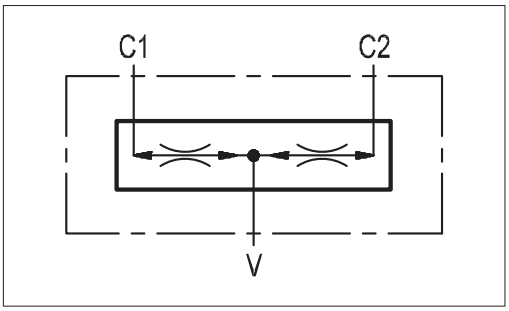
SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	2 x 200 l/min
Regulated Flow:	3 - 250 l/min
Manifold:	Zinc plated steel
Weight:	10,9 kg
Coil:	M7 type

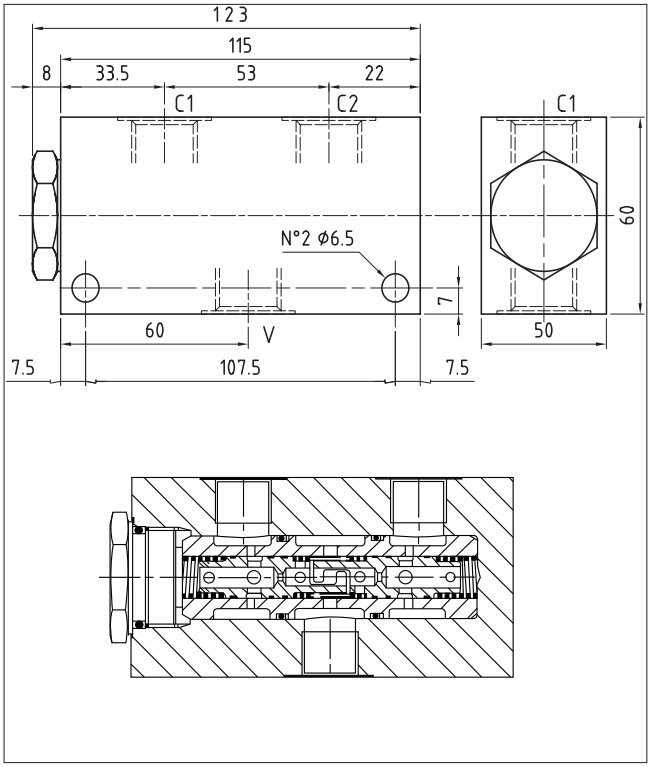
154 Flow Divider / Combiner Valves

Pressure Compensated Proportional Flow Divider Valves

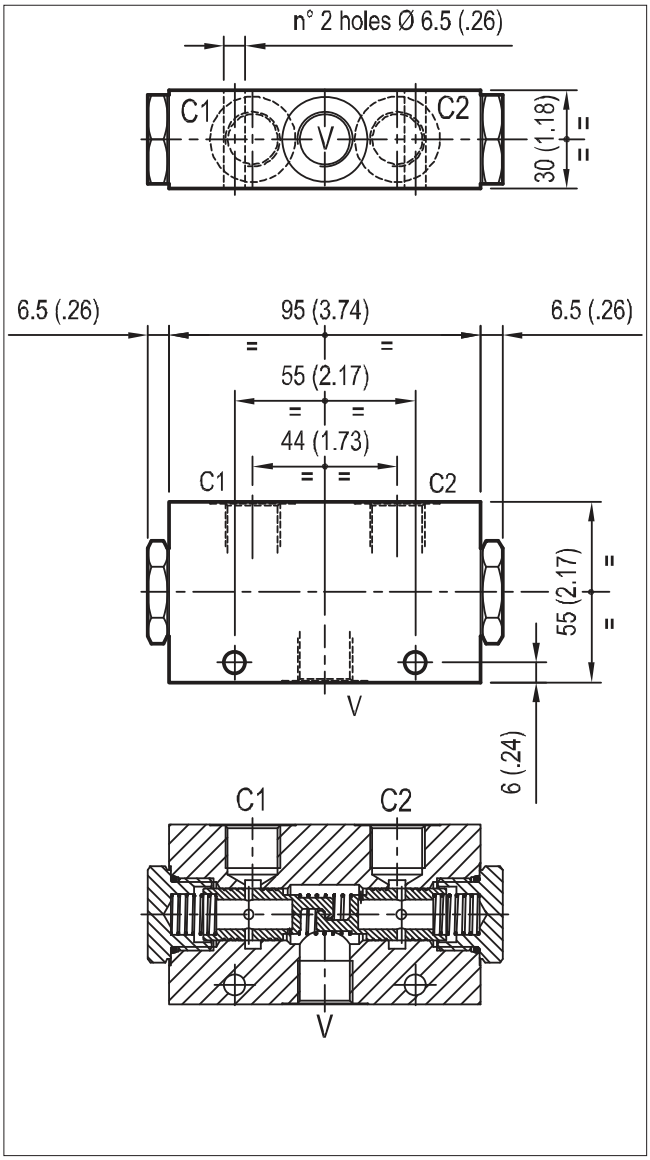
Stock No.	Description	Body	Flow Range	Port Size	Max Pressure	List Price
154221010210	50:50 Flow Divider/Combiner	Aluminium	3 - 6 LPM	3/8" & 3/8"	210 BAR	$ 324.00
154221010220	50:50 Flow Divider/Combiner	Aluminium	7 - 11 LPM	3/8" & 3/8"	210 BAR	$ 324.00
154221010230	50:50 Flow Divider/Combiner	Aluminium	13 - 22 LPM	3/8" & 3/8"	210 BAR	$ 324.00
154221010330	50:50 Flow Divider/Combiner	Aluminium	13 - 22 LPM	1/2" & 3/8"	210 BAR	$ 324.00
154221010340	50:50 Flow Divider/Combiner	Aluminium	25 - 38 LPM	1/2" & 3/8"	210 BAR	$ 324.00
154221030221	50:50 Flow Divider/Combiner	Steel	4 - 8 LPM	3/8" & 3/8"	350 BAR	$ 308.00
154221030331	50:50 Flow Divider/Combiner	Steel	8 - 16 LPM	1/2" & 3/8"	350 BAR	$ 308.00
154221030341	50:50 Flow Divider/Combiner	Steel	16 - 32 LPM	1/2" & 3/8"	350 BAR	$ 308.00
154221030351	50:50 Flow Divider/Combiner	Steel	25 - 55 LPM	1/2" & 3/8"	350 BAR	$ 308.00



15422101** - Aluminium**



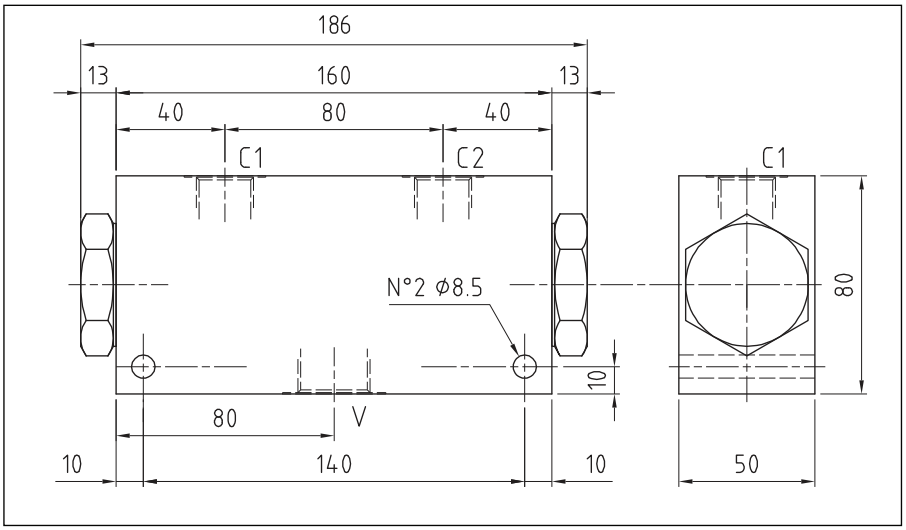
15422103** - Steel**

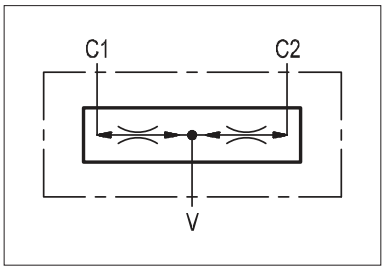


154 Flow Divider / Combiner Valves

Pressure Compensated Proportional Flow Divider Valves

Stock No.	Description	Body	Flow Range	Port Size	Max Pressure	List Price
154221010410	50:50 Flow Divider/Combiner	Aluminium	28 - 58 LPM	3/4" & 1/2"	210 BAR	$ 527.00
154221010420	50:50 Flow Divider/Combiner	Aluminium	56 - 95 LPM	3/4" & 1/2"	210 BAR	$ 527.00
154221010530	50:50 Flow Divider/Combiner	Aluminium	90 - 150 LPM	1" & 3/4"	210 BAR	$ 527.00

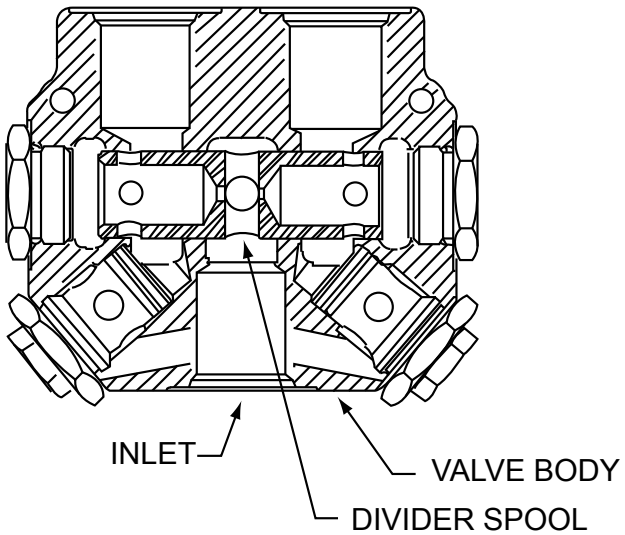


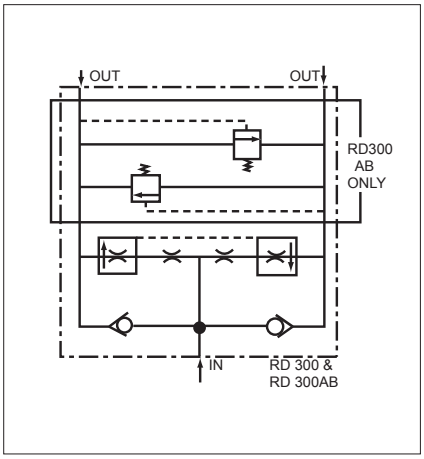


RD Flow Divider Valves

Pressure Compensated Proportional Flow Divider Valves

Stock No.	Description	Flow Range	Port Size	Max. Pressure	List Price
RD35016	50:50 Flow Divider with Free Return Check	8 - 16 GPM	1/2" NPT	3000 PSI	$ 354.00
RD1550AB	50:50 Flow Divider/Combiner	8 - 16 GPM			$ 493.00
RD1550	50:50 Flow Divider/Combiner No Bypass	8 - 16 GPM			$ 493.00



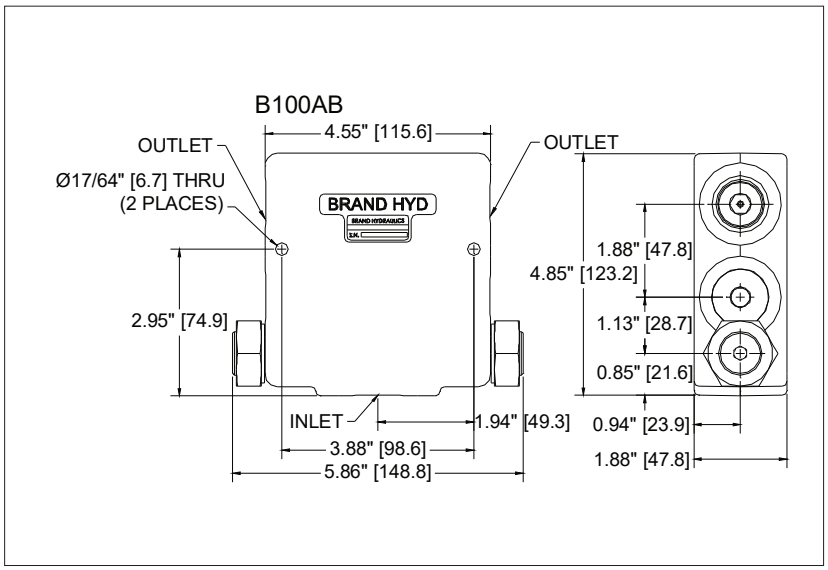


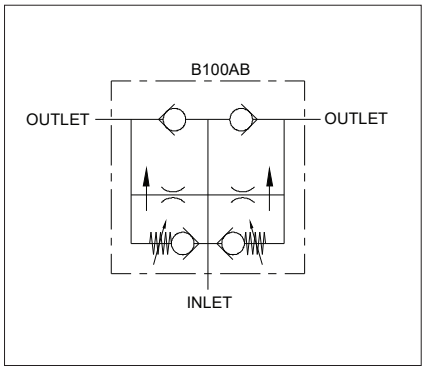
B100AB Flow Divider / Combiner Valves

Pressure Compensated Proportional Flow Divider Valves Auto Bypass with Free Return

Stock No.	Description	Body	Flow Range	Port Size	Max Pressure	List Price
B100AB38	50:50 Flow Divider	Cast Iron	8 - 30 LPM	3/8" NPT	210 BAR	$ 404.00
B100AB12	50:50 Flow Divider	Cast Iron	30 - 60 LPM	1/2" NPT	210 BAR	$ 404.00
B100AB34	50:50 Flow Divider	Cast Iron	60 - 113 LPM	3/4" NPT	210 BAR	$ 404.00

DIMENSIONAL DATA: inches & [millimeters]



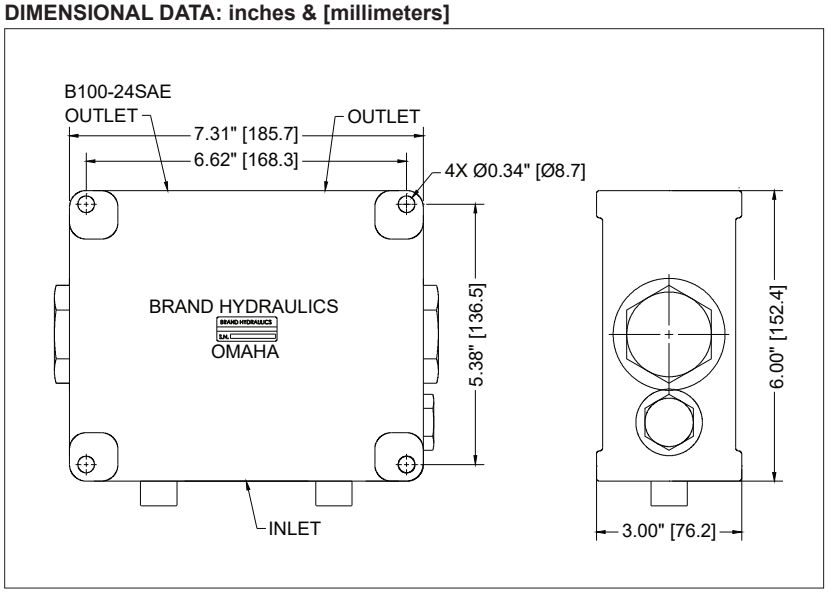


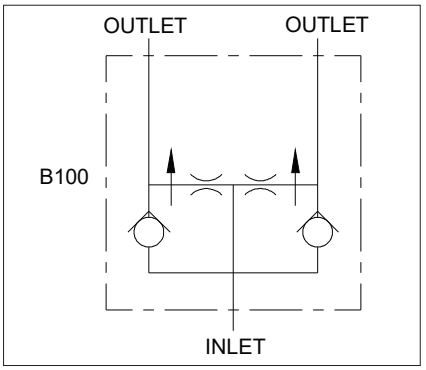
B100 Flow Divider / Combiner Valves

Pressure Compensated Proportional Flow Divider Valves with Free Return

Stock No.	Description	Body	Flow Range	Port Size	Max Pressure	List Price
B10024SAE316	50:50 Flow Divider	Cast Iron	113 - 208 LPM	1-7/8" UNO	210 BAR	$ 1490.00
B10024SAE380	50:50 Flow Divider	Cast Iron	170 - 284 LPM	1-7/8" UNO	210 BAR	$ 1490.00

DIMENSIONAL DATA: inches & [millimeters]

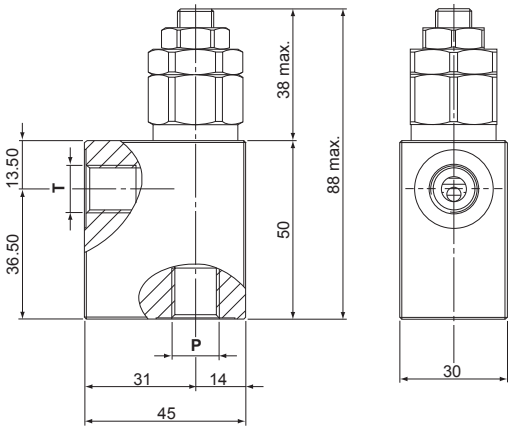


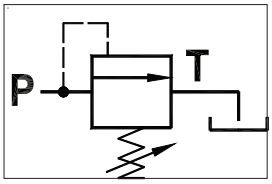


Relief Valves

Direct Acting Poppet Type

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMD15CBP14**	Inline Relief Valve	15 LPM	350 BAR	1/4" BSPP	Aluminium	$ 85.00

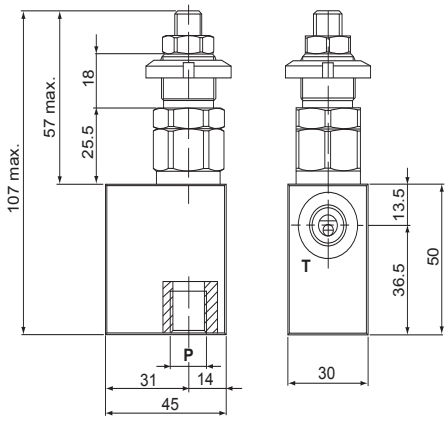




Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-60	15	5	White
10	20-130	30	20	Yellow
20	40-240	65	40	Green
35	50-350	100	50	Red

Direct Acting Poppet Type - Panel Mount

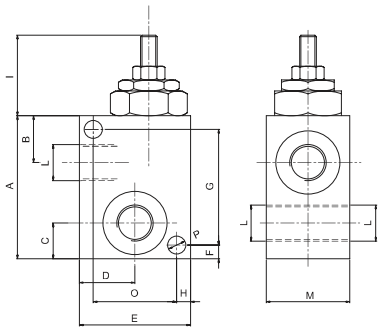
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMD15FCBP14**	Inline Relief Valve	15 LPM	350 BAR	1/4" BSPP	Aluminium	$ 89.00



Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-60	15	5	White
10	20-130	30	20	Yellow
20	40-240	65	40	Green
35	50-350	100	50	Red

Direct Acting Poppet Type

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
VMDL2001B1	Inline Relief Valve	20 LPM	350 BAR	1/4" BSPP	Aluminium	$ 109.00
VMDL2002B1	Inline Relief Valve	20 LPM	350 BAR	3/8" BSPP	Aluminium	$ 109.00



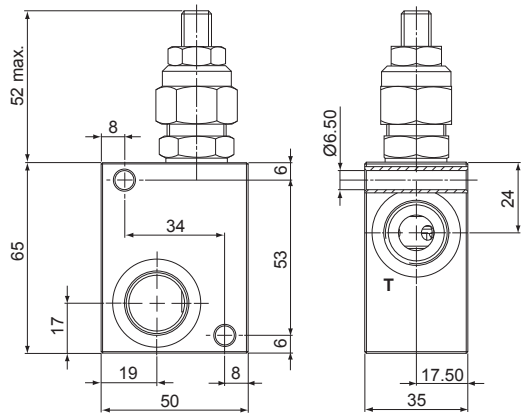
Dimension	A	B	C	D	E	F	G	H	I	L Gas	L NPT	L SAE	M	N	O	P
01	52	17	13	20	40	5	42	5	40	1/4	1/4	-	30	40	30	6.5
015	52	17	13	20	40	5	42	5	40	-	-	9/16-14	30	40	30	6.5
02	52	17	13	20	40	5	42	5	40	3/8	3/8	-	30	40	30	6.5

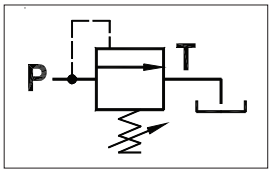
Spring (bar)	
A	5 - 100
B	10 - 200
C	30 - 350

Relief Valves

Direct Acting Poppet Type

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMD40CBP38**	Inline Relief Valve	40 LPM	350 BAR	3/8" BSPP	Aluminium	$ 109.00
FPMD40CBP12**	Inline Relief Valve	40 LPM	350 BAR	3/8" BSPP	Aluminium	$ 109.00

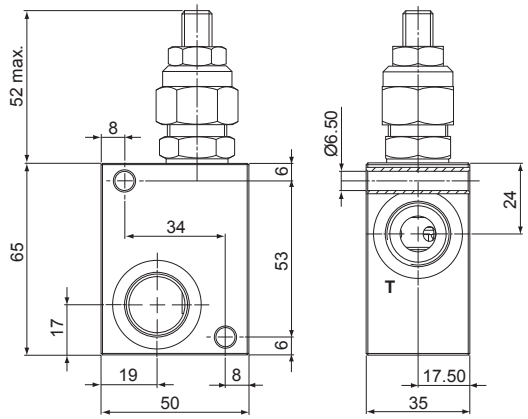




Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	50-220	40	50	Green
35	80-350	80	80	Red

Direct Acting Poppet Type

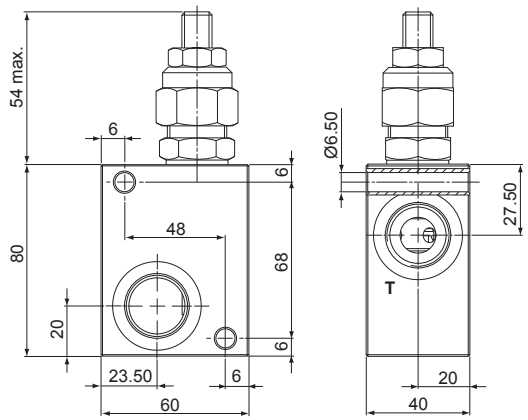
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMD40CBP12S**	Inline Relief Valve	40 LPM	350 BAR	1/2" BSPP	Steel	$ 126.00



Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	50-220	40	50	Green
35	80-350	80	80	Red

Direct Acting Poppet Type

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMD70CBP12**	Inline Relief Valve	80 LPM	280 BAR	1/2" BSPP	Aluminium	$ 167.00
FPMD70CBP34**	Inline Relief Valve	80 LPM	280 BAR	3/4" BSPP	Aluminium	$ 167.00

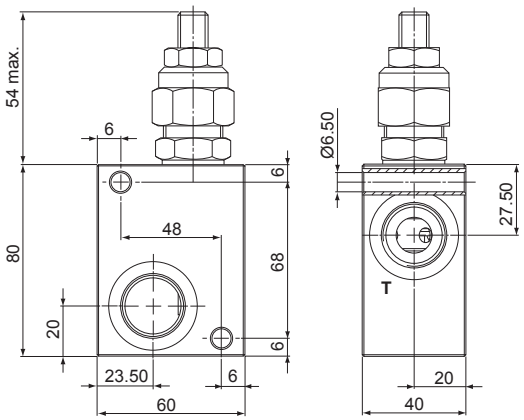


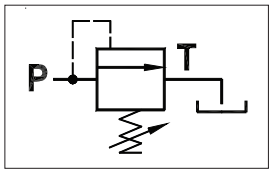
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	80-280	40	50	Green

Relief Valves

Direct Acting Poppet Type

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMDC70CBP34S**	Inline Relief Valve	80 LPM	280 BAR	3/4" BSPP	Steel	$ 223.00

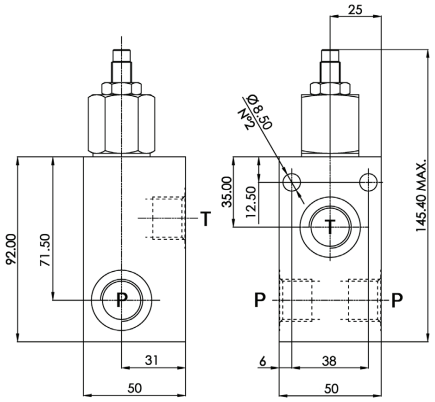




Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	80-280	40	50	Green

Pilot Operated Spool Type

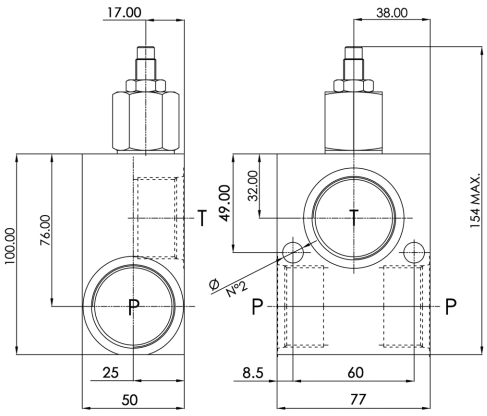
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMP150CBP34**	Inline Relief Valve	150 LPM	350 BAR	3/4" BSPP	Aluminium	$ 167.00



Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
10	10-120	26	10	White
20	15-250	55	15	Yellow
35	20-350	120	20	Green

Pilot Operated Spool Type

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMP150CBP1**	Inline Relief Valve	150 LPM	350 BAR	1" BSPP	Aluminium	$ 297.00

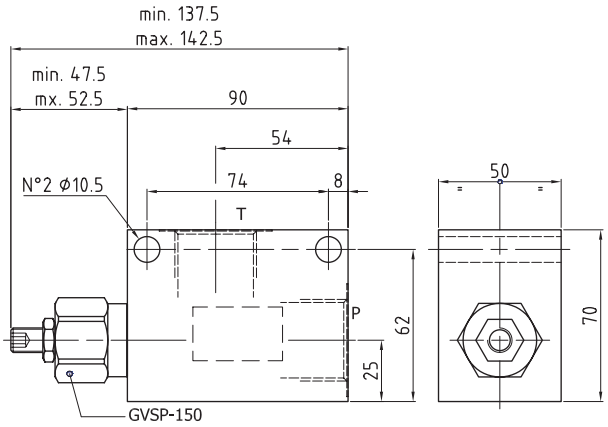


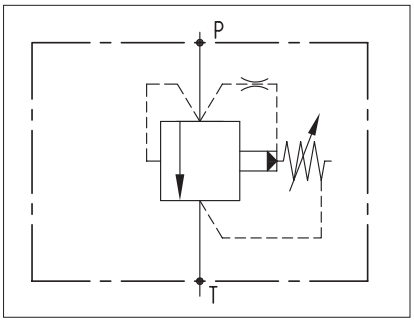
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
10	10-120	26	10	White
20	15-250	55	15	Yellow
35	20-350	120	20	Green

Relief Valves

Pilot Operated Spool Type

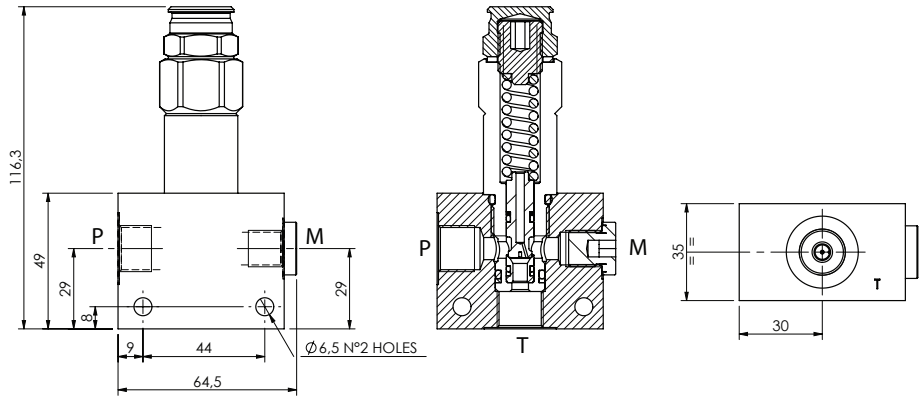
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
124011440200	Inline Relief Valve	150 LPM	350 BAR	1/2" BSPP	Steel	$ 240.00
124011450200	Inline Relief Valve	150 LPM	350 BAR	3/4" BSPP	Steel	$ 240.00
124011460200	Inline Relief Valve	150 LPM	350 BAR	1" BSPP	Steel	$ 329.00

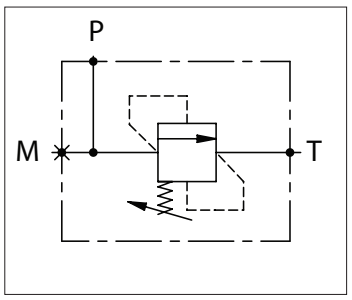




Differential Piston

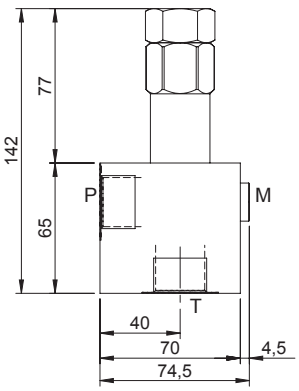
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
KP000067A	Inline Relief Valve	40 LPM	210 BAR	3/8" BSPP	Aluminium	$ 175.00
KP000067	Inline Relief Valve	40 LPM	350 BAR	3/8" BSPP	Aluminium	$ 175.00

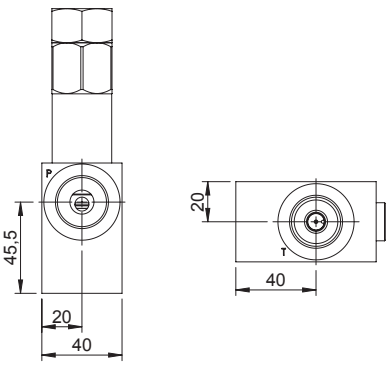


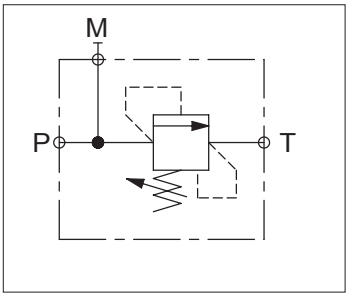


Differential Piston

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
KP000058	Inline Relief Valve	150 LPM	350 BAR	1/2" BSPP	Aluminium	$ 215.00



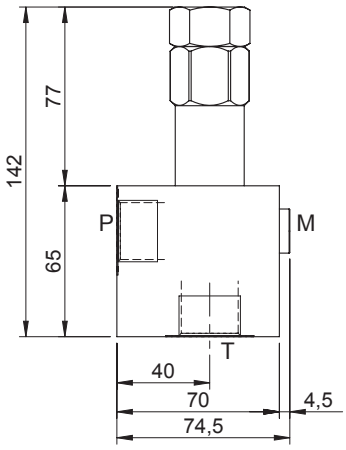


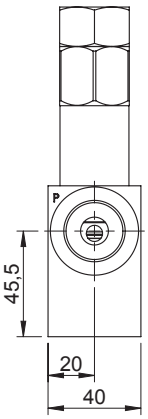


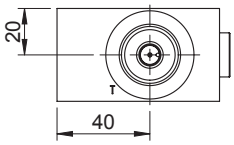
Relief Valves

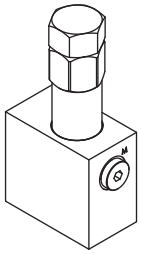
Differential Piston

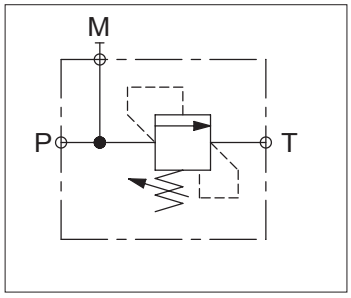
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
KP000057	2 Port Relief Valve	150 LPM	210 BAR	3/4" BSPP	Aluminium	$ 215.00
KP000028	2 Port Relief Valve	150 LPM	350 BAR	3/4" BSPP	Aluminium	$ 215.00





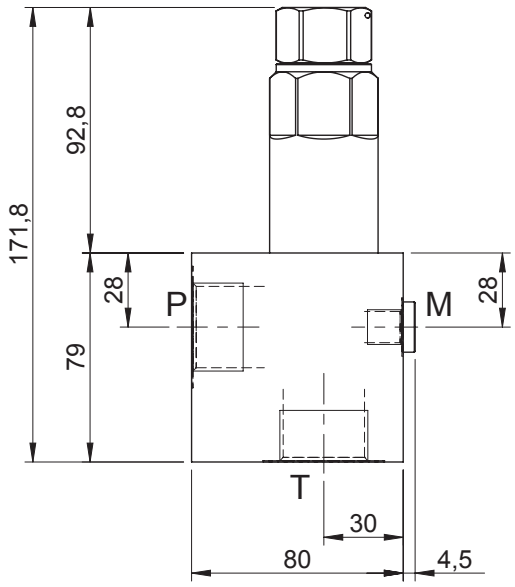


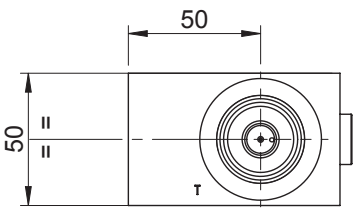


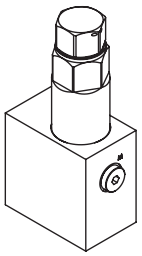


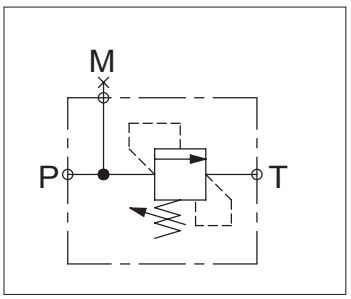
Differential Piston

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
KP000103	2 Port Relief Valve	250 LPM	210 BAR	1" BSPP	Steel	$ 335.00
KP000068	2 Port Relief Valve	250 LPM	350 BAR	1" BSPP	Steel	$ 335.00





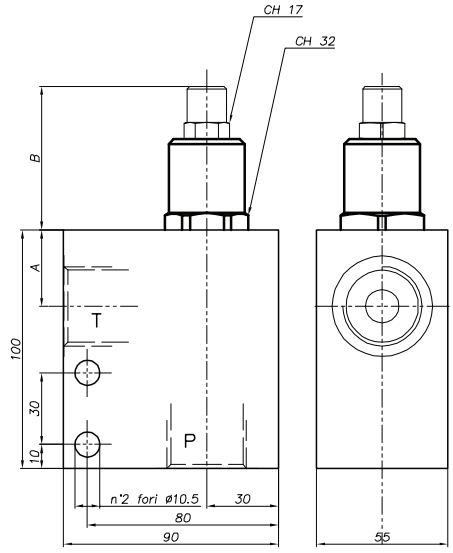


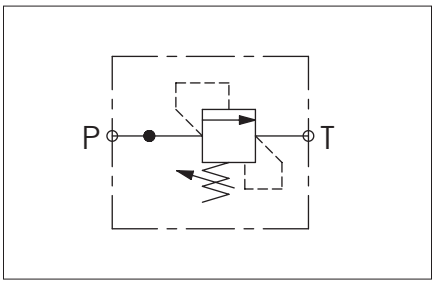


Relief Valves

Differential Piston

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
0027870X0	2 Port Relief Valve	180 LPM	350 BAR	1” BSPP	Steel	$ 335.00
0027800X0	2 Port Relief Valve	180 LPM	350 BAR	1-1/4” BSPP	Steel	$ 335.00



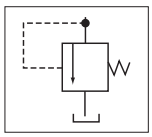


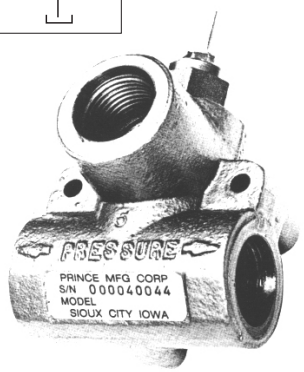
Dimensions			
Setting Range	A	B	Port Size P-T
787	32	60	1” BSPP
780	28	64	1-1/4” BSPP

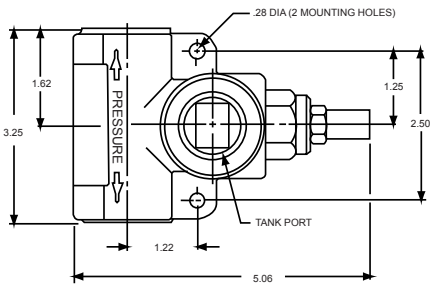
RV Relief Valves

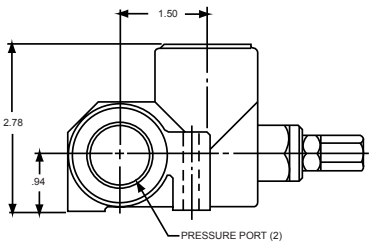
In-Line Adjustable Pressure Relief Valves - Cast Iron

Stock No.	Description	Port Size	Max. Flow Rate	Adjustment Range	Preset Pressure	List Price
RV1L	In-Line Relief Valve with Through Port	1-1/6” UNO	30 GPM	500-1500 PSI	1000 PSI	$ 202.00
RV1H	In-Line Relief Valve with Through Port	1-1/16” UNO		1500-3000 PSI	2000 PSI	$ 202.00
RV4L	In-Line Relief Valve with Through Port	1/2” NPT		500-1500 PSI	1000 PSI	$ 202.00
RV4H	In-Line Relief Valve with Through Port	1/2” NPT		1500-3000 PSI	2000 PSI	$ 202.00
RV5L	In-Line Relief Valve with Through Port	3/4” UNO		500-1500 PSI	1000 PSI	$ 202.00
RV5H	In-Line Relief Valve with Through Port	3/4” UNO		1500-3000 PSI	2000 PSI	$ 202.00





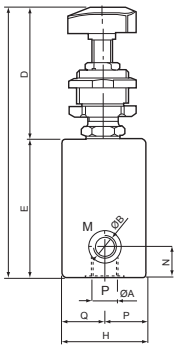




CP/VP Relief Valves

In-Line Adjustable Pressure Relief Valves - Handknob Adjuster (Panel Mount)

Stock No.	Description	Port Size	Max. Flow Rate	Maximum Pressure	Adjustment Range	List Price
CP72V	In-Line Relief Valve	1/4" BSPP	20 LPM	350 BAR	50-350 BAR	$ 198.00
CP102V	In-Line Relief Valve	3/8" BSPP	40 LPM	350 BAR	50-350 BAR	$ 223.00
CP132V	In-Line Relief Valve	1/2" BSPP	70 LPM	300 BAR	20-200 BAR	$ 247.00
CP142V	In-Line Relief Valve	3/4" BSPP	80 LPM	300 BAR	20-200 BAR	$ 284.00



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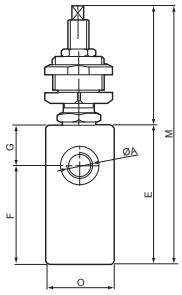

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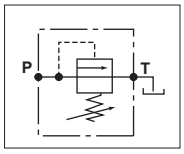
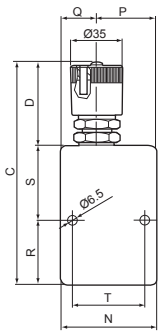


VP Style

	øA	øB	C	D	E	F	G	H	L	M	N	O	P	Q
CP7	1/4" GAS	1/4" GAS	155	75	80	55	25	48	76	156	19	40	24	24
CP10	3/8" GAS		155	75	80	55	25	48	76	156	19	40	24	24
CP13	1/2" GAS	1/4" GAS	155	70	85	56	29	60	71	156	22	40	25	35
CP14	3/4" GAS		165	70	95	66	29	65	71	166	27	45	25	40

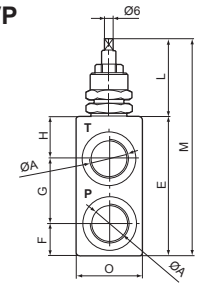
In-Line Adjustable Pressure Relief Valves with Through Port - Handknob Adjuster

Stock No.	Description	Port Size	Max. Flow Rate	Maximum Pressure	Adjustment Range	List Price
VP72V	In-Line Relief Valve with Through Port	1/4" BSPP	20 LPM	350 BAR	50-350 BAR	$ 198.00
VP102V	In-Line Relief Valve with Through Port	3/8" BSPP	40 LPM	350 BAR	50-350 BAR	$ 223.00
VP132V	In-Line Relief Valve with Through Port	1/2" BSPP	70 LPM	300 BAR	20-200 BAR	$ 247.00
VP142V	In-Line Relief Valve with Through Port	3/4" BSPP	80 LPM	300 BAR	20-200 BAR	$ 284.00



V

VP



F

ORDERING INFORMATION

CP **13** **2-** **V**

Model
CP
VP

Size
7
10
13
14

Pressure Range	
0	0-100* 0-60
1	20-210* 10-140
2	50-350* 20-200
3	50-300
*CP/VP7/10 only	

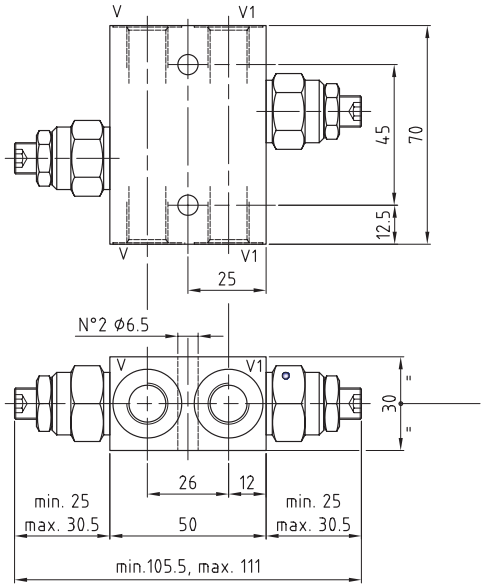
Adjustment	
V	Knob
F	Screw
P	Press.
T	Tank
M	Gauge

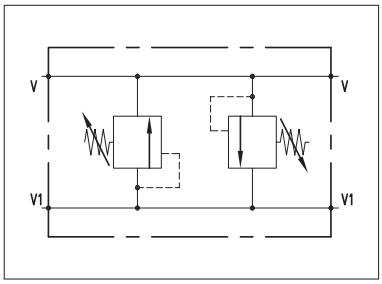
	øA	C	D	E	F	G	H	L	M	N	O	P	Q	R	S	T
VP7	1/4" GAS	135.5	61.5	74	19	30	25	58	132	48	34	24	24	34	40	36
VP10	3/8" GAS	135.5	61.5	74	19	30	25	58	132	48	34	24	24	34	40	36
VP13	1/2" GAS	141.5	56.5	85	20	36	29	52.5	137.5	60	40	25	35	38	47	44
VP14	3/4" GAS	151.5	56.5	95	22	44	29	52.5	147.5	65	45	25	40	44	51	49

GVSDI Cross Line Relief Valves

Dual Cross Line Relief Valve

Stock No.	Description	Port Size	Max. Flow Rate	Maximum Pressure	Adjustment Range	List Price
20505100110000	Dual Cross Line Relief Valve	1/4” BSPP	20 LPM	250 BAR	20-150 BAR	$ 170.00
20505100120000	Dual Cross Line Relief Valve	1/4” BSPP	20 LPM	250 BAR	100-250 BAR	$ 170.00





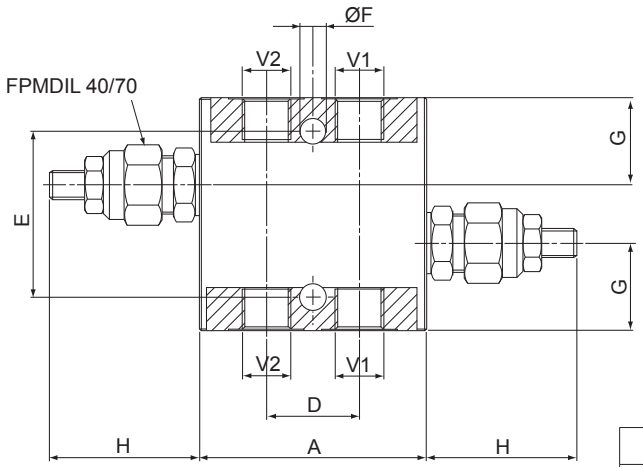
Technical Data	
Max. working pressure	250 bar
Flow max.	20 l/min
Weight	0.4 kg

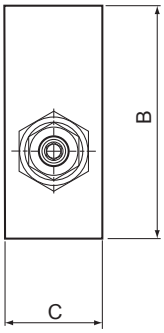
FPMDIL Cross Line Relief Valves

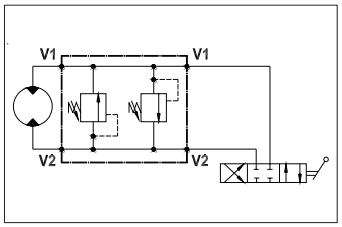
Dual Cross Line Relief Valve

Stock No.	Description	Port Size	Max. Flow Rate	Maximum Pressure	Adjustment Range	List Price
FPMDIL4038**	Dual Cross Line Relief Valve	3/8” BSPP	40 LPM	350 BAR	Refer Table Below	$ 186.00
FPMDIL7012**	Dual Cross Line Relief Valve	1/2” BSPP	80 LPM	280 BAR		$ 225.00

ORDERING INFORMATION				
	05	10	20	35
FPMDIL4038**	5-50	30-100	50-220	80-350
FPMDIL7012**	5-50	30-100	80-280	





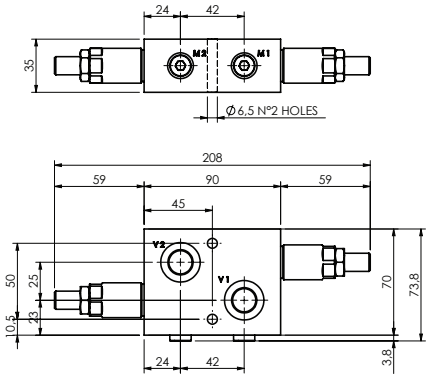


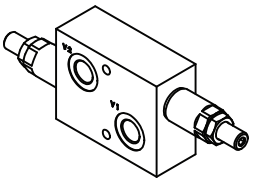
	V1-V2	A	B	C	D	E	F	G	H
FPMDIL40	3/8” BSPP	78	80	35	32	57	9	30	52
FPMDIL70	1/2” BSPP	92	100	40	34	57	9	38	54

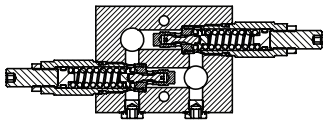
Cross Line Relief Valves

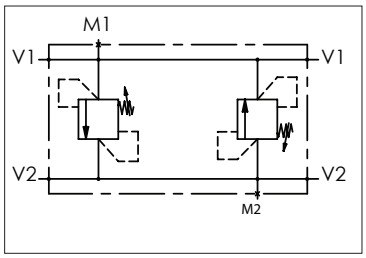
Dual Cross Line Relief Valve

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
MA000006	Dual Cross Line Relief Valve	30 LPM	210 BAR	3/8" BSPP	Aluminium	$ 225.00
MA000005	Dual Cross Line Relief Valve	30 LPM	350 BAR	3/8" BSPP	Aluminium	$ 225.00





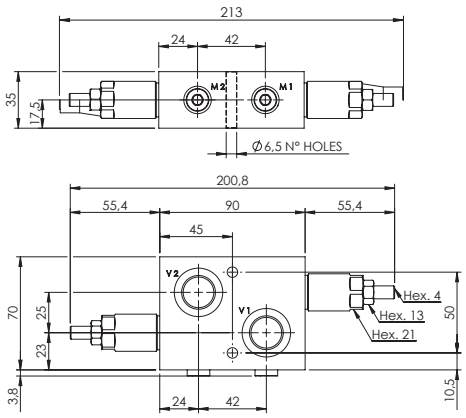


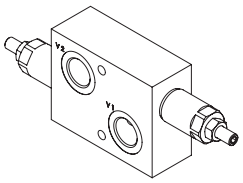


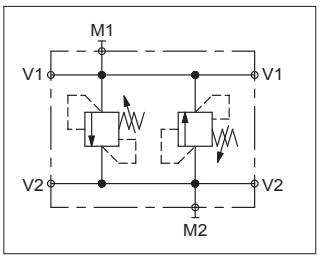
Technical Data	
Max. working pressure	350 bar
Rated flow	30 l/min
Weight	0.84 kg

Dual Cross Line Relief Valve

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
MA000009	Dual Cross Line Relief Valve	30 LPM	30-100 BAR	1/2" BSPP	Aluminium	$ 217.00
MA000010	Dual Cross Line Relief Valve	30 LPM	100-350 BAR	1/2" BSPP	Aluminium	$ 217.00



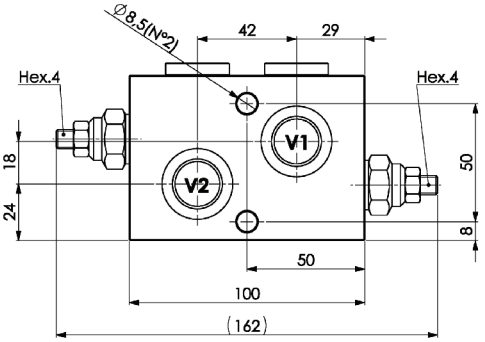


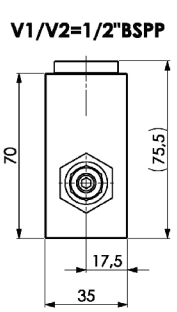


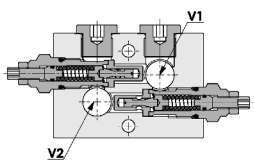
Technical Data	
Max. working pressure	350 bar
Rated flow	30 l/min
Weight	0.8 kg

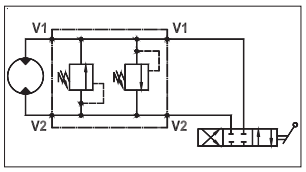
Dual Cross Line Relief Valve

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
FPMD40ILP12**SP09D	Dual Cross Line Relief Valve	40 LPM	250 BAR	3/8" BSPP	Aluminium	$ 186.00







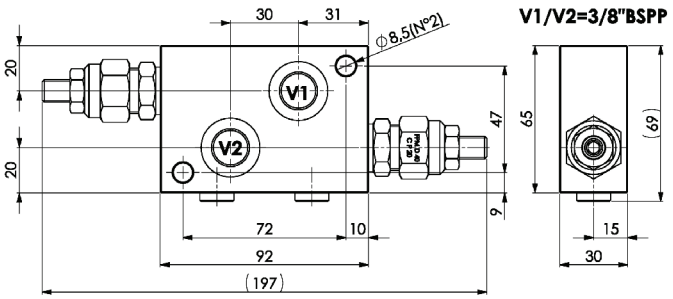


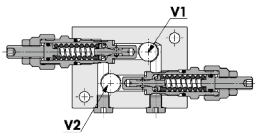
Springs				
Code **	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
20	30-250	50	30	Green

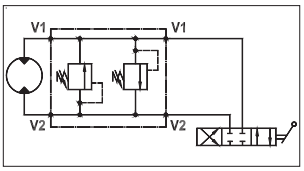
Cross Line Relief Valves

Dual Cross Line Relief Valve

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
FPMD40ILP38S**SP08N	Dual Cross Line Relief Valve	40 LPM	350 BAR	3/8” BSPP	Steel	$ 280.00



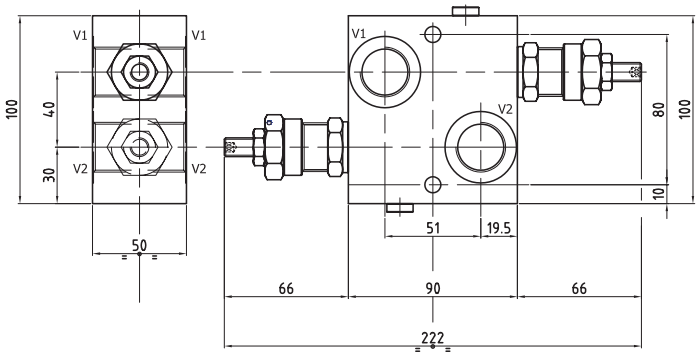




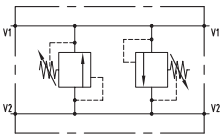
Springs				
Code **	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
20	50-220	40	50	Green
35	80-350	80	80	Red

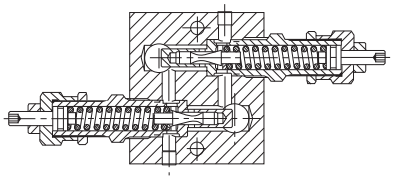
Dual Cross Line Relief Valve

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
20529100320000	Dual Cross Line Relief Valve	80 LPM	210 BAR	1/2” BSPP	Aluminium	$ 225.00
20529100420000	Dual Cross Line Relief Valve	80 LPM	210 BAR	3/4” BSPP	Aluminium	$ 225.00



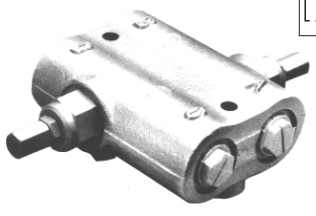
Technical Data	
Max. working pressure	210 bar
Rated flow	80 l/min
Weight	1.63 kg

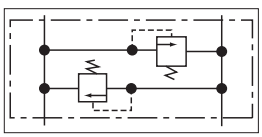


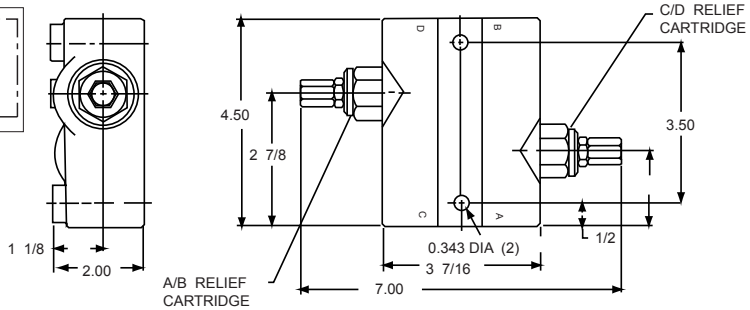


In-Line Adjustable Cross Line Relief Valves - Cast Iron

Stock No.	Description	Port Size	Max. Flow Rate	Adjustment Range	Preset Pressure	List Price
DRV1LL	Cross Line Relief Valve (4 ports)	1-1/6” UNO	30 GPM	500-1500 PSI	1000 PSI	$ 336.00
DRV1HH	Cross Line Relief Valve (4 ports)	1-1/16” UNO		1500-3000 PSI	2000 PSI	$ 336.00
DRV4LL	Cross Line Relief Valve (4 ports)	1/2” NPT		500-1500 PSI	1000 PSI	$ 336.00
DRV4HH	Cross Line Relief Valve (4 ports)	1/2” NPT		1500-3000 PSI	2000 PSI	$ 336.00
DRV5LL	Cross Line Relief Valve (4 ports)	3/4” UNO		500-1500 PSI	1000 PSI	$ 336.00
DRV5HH	Cross Line Relief Valve (4 ports)	3/4” UNO		1500-3000 PSI	2000 PSI	$ 336.00



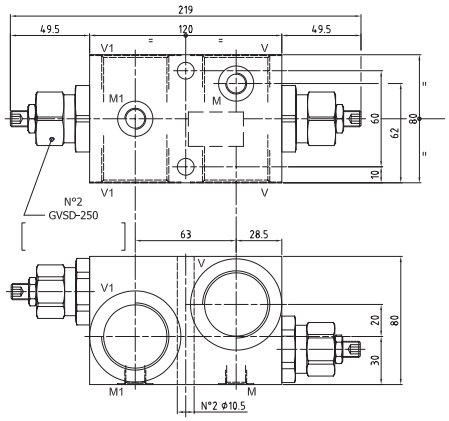


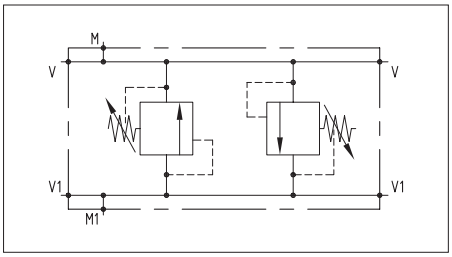


Cross Line Relief Valves

Dual Cross Line Relief Valve

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
20536110650100	Dual Cross Line Relief Valve	240 LPM	350 BAR	1-1/4" BSPP	Steel	$ 600.00

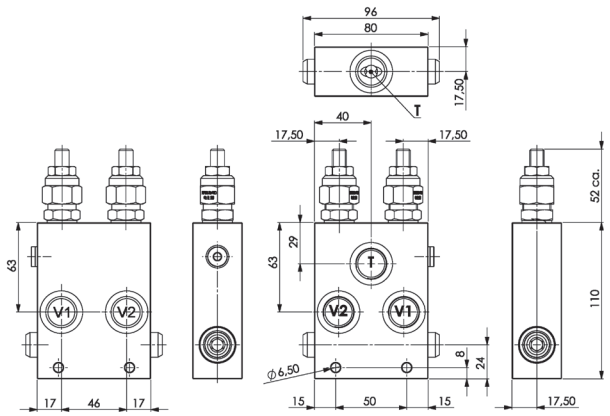


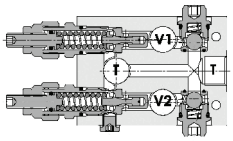


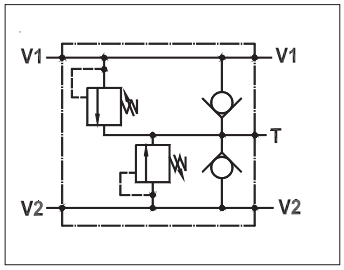
Technical Data	
Max. working pressure	350 bar
Rated flow	240 l/min
Weight	6.00 kg

Dual Cross Line Relief Valve with Anti-Cavitation

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
FPMD40ILACP12A**	Dual Cross Line Relief Valve	40 LPM	250 BAR	1/2" BSPP	Aluminium	$ 270.00



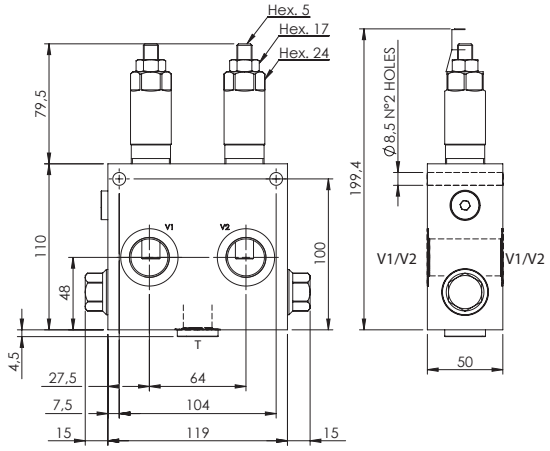


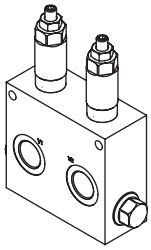


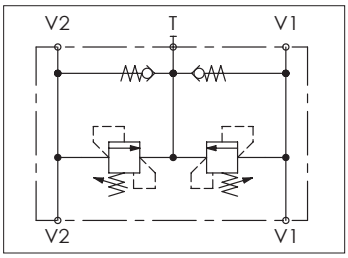
Technical Data	
Max. working pressure	250 bar
Rated flow	40 l/min
Weight	1.05 kg

Dual Cross Line Relief Valve with Anti-Cavitation

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
MA000018	Dual Cross Line Relief Valve	80 LPM	250 BAR	3/4" BSPP	Aluminium	$ 437.00





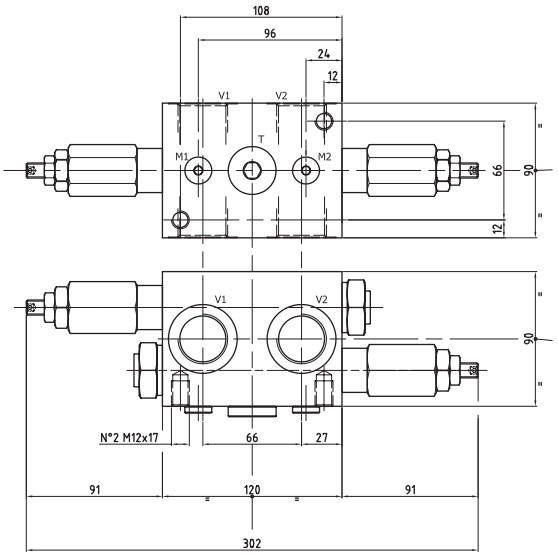


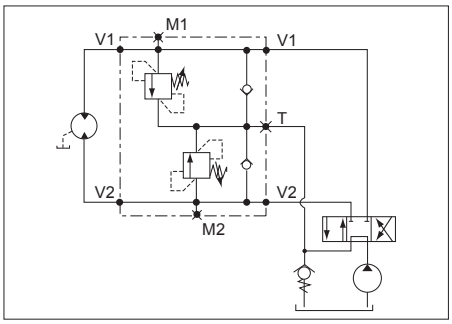
Technical Data	
Max. working pressure	250 bar
Rated flow	80 l/min
Weight	2.3 kg

Cross Line Relief Valves - Anti-Cavitation

Dual Cross Line Relief Valve with Anti-Cavitation

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
20535310520000	Dual Cross Line Relief Valve	150 LPM	40-100 BAR	1” BSPP	Aluminium	$ 479.00
20535310530000	Dual Cross Line Relief Valve	150 LPM	70-210 BAR	1” BSPP	Aluminium	$ 479.00
20535310540000	Dual Cross Line Relief Valve	150 LPM	130-350 BAR	1” BSPP	Aluminium	$ 479.00

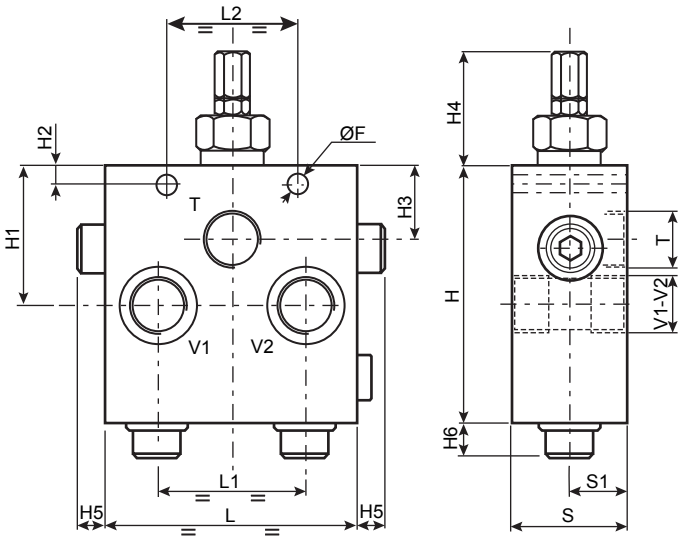


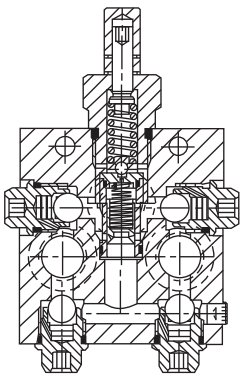


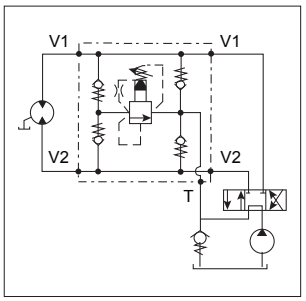
Technical Data	
Max. working pressure	350 bar
Rated flow	150 l/min
Weight	2.88 kg

Dual Cross Line Relief Valve with Anti-Cavitation

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
FPMP150CBAC12P	Dual Cross Line Relief Valve	100 LPM	20-350 BAR	1/2” BSPP	Steel	$ 450.00
FPMP150CBAC34P	Dual Cross Line Relief Valve	130 LPM	20-350 BAR	3/4” BSPP	Steel	$ 620.00
FPMP150CBAC1R	Dual Cross Line Relief Valve	150 LPM	130-350 BAR	1” BSPP	Steel	$ 1200.00







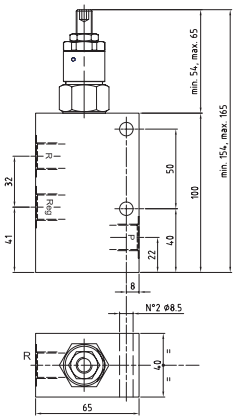
Technical Data	
Max. working pressure	350 bar
Rated flow	Refer table below
Weight	Refer table below

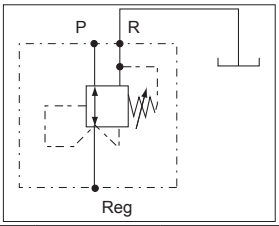
S	S1	L2	L1	L	H6	H5	H4	H3	H2	H1	H	F	Y	Weight Kg
50	20	50	52	90	12.6	6.8	52.5	35	8	33	95	8.5	1/2” BSPP	3
60	30	62	70	122	15.5	10.5	53	34.5	8.5	64.5	120	8.5	3/4” BSPP	6.1
60	30	72	80	146	15.5	9	52.5	34	7	64.5	134	8.5	1” BSPP	7.1

Pressure Reducing Valves

Pressure Reducing Valve with Relief Feature

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
2030502*100000	Pressure Reducing Valve	20 LPM	210 BAR	3/8” BSPP	Aluminium	$ 295.00



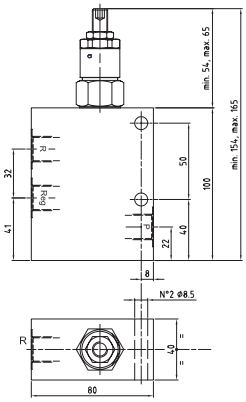


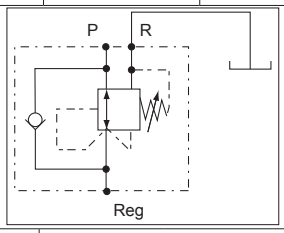
Code *	Springs	
	Adj. press. range bar	Std. setting bar (Q=5 l/min)
1	10 - 30	20
2	30 - 100	50
3	40 -150	100

Technical Data	
Max. inlet pressure	210 bar
Max. regulated pressure	105 bar
Flow max.	20 l/min
Weight	1.00 kg
Max leakage: 0.003 l/min at 90% of standard pressure setting.	
Fluid cleanliness class: 18/14 ISO 4406 (9 NAS-1638) or better.	

Pressure Reducing Valve with Relief Feature and Free Flow Check

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
2031002*100000	Pressure Reducing Valve	20 LPM	210 BAR	3/8” BSPP	Aluminium	$ 336.00



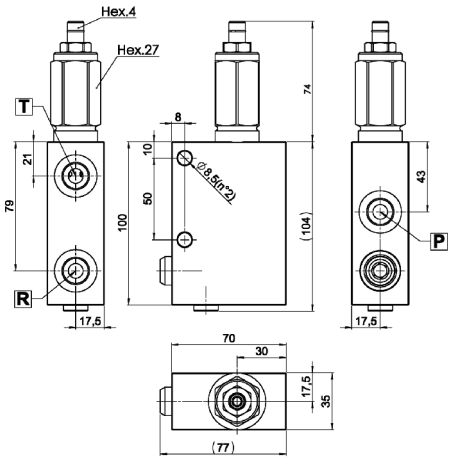


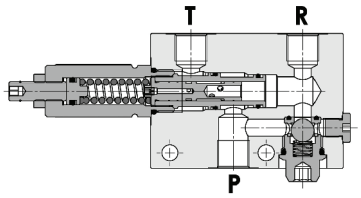
Code *	Springs	
	Adj. press. range bar	Std. setting bar (Q=5 l/min)
1	10 - 30	20
2	30 - 100	50
3	40 -150	100

Technical Data	
Max. operating pressure	250 bar
Flow max.	20 l/min
Max. regulated pressure	105 bar
Weight	1.00 kg
Temperature range	-20ºC to 80ºC
Filtration	15µ

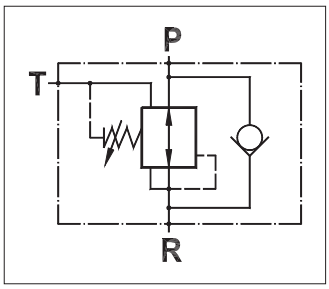
Pressure Reducing Valve with Relief Feature and Free Flow Check

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
FPRPUD30CBP38**	Pressure Reducing Valve	30 LPM	210 BAR	3/8” BSPP	Aluminium	$ 336.00





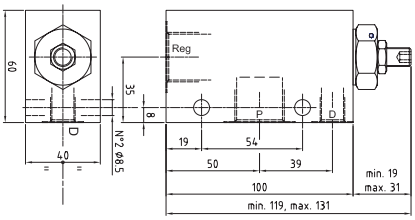
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5 - 35	3	5	White
10	10 - 60	5.5	10	Yellow
20	15 - 100	10	15	Green
35	35 - 180	20	35	Red

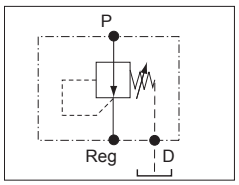


Pressure Reducing Valves

Pilot Operated Pressure Reducing Valve

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
203150310300000	Pressure Reducing Valve	120 LPM	250 BAR	1/2” BSPP	Aluminium	$ 268.00
203150410300000	Pressure Reducing Valve	120 LPM	250 BAR	3/4” BSPP	Aluminium	$ 311.00





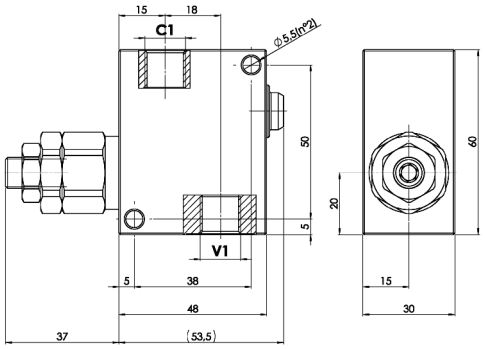
Code *	Springs		
	Adj. press. range bar	Pressure increase bar / turn	Std. setting bar (Q=5 l/min)
1	10 - 30	35	20

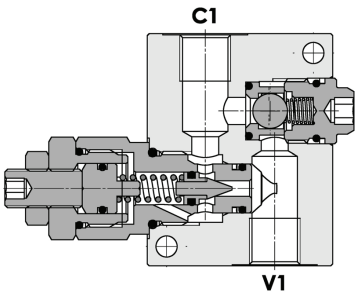
Technical Data	
Max. inlet pressure	250 bar
Max. regulated pressure	210 bar
Flow max.	120 l/min
Weight	1.00 kg
Temperature range	-20ºC to 80ºC
Filtration	15µ

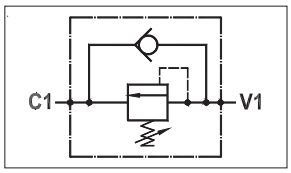
Sequence Valves

Direct Acting Sequence

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
FPSQD15CBP14**	Sequence Valve	15 LPM	250 BAR	1/4” BSPP	Aluminium	$ 124.00



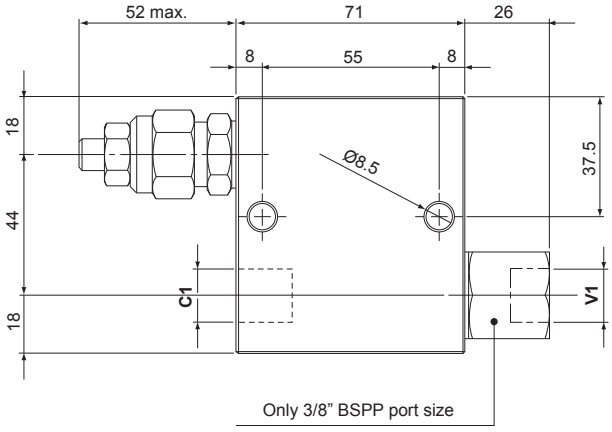


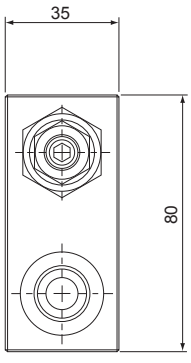


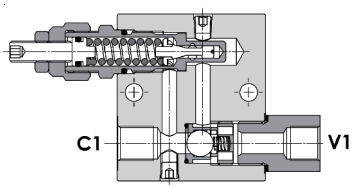
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5 - 60	15	5	White
10	20 - 130	30	20	Yellow
20	40 - 240	65	40	Green
35	50 - 350	100	50	Red

Direct Acting Sequence

Stock No.	Description	Max. Flow	Maximum Pressure	Port Size	Body	List Price
FPSQD30CBP38**	Sequence Valve	40 LPM	350 BAR	3/8” BSPP	Aluminium	$ 150.00





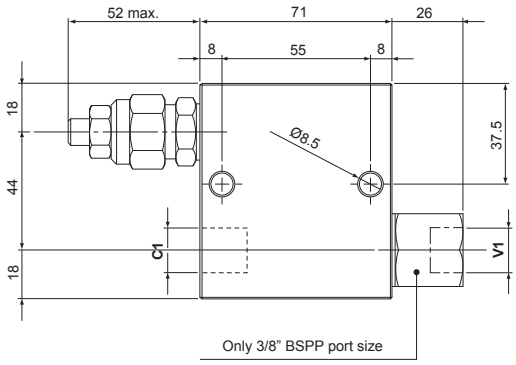


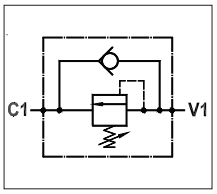
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	50-220	40	50	Green
35	80-350	80	80	Red

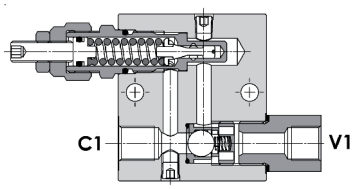
Sequence Valves

Direct Acting Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPSQD30CBP12**	Sequence Valve	40 LPM	350 BAR	1/2" BSPP	Aluminium	$ 150.00



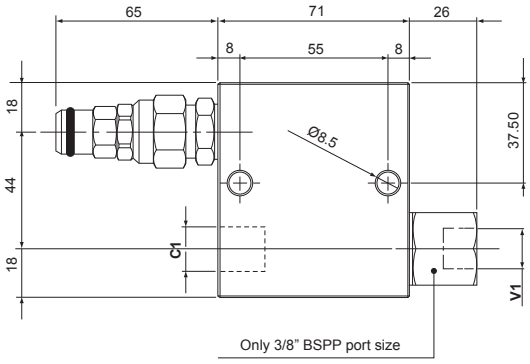


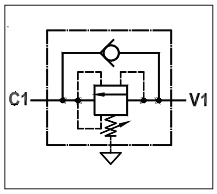


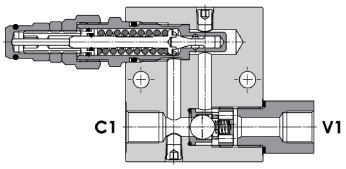
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	50-220	40	50	Green
35	80-350	80	80	Red

Direct Acting Self Compensated Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPSQBD30CB38**	Sequence Valve	40 LPM	350 BAR	3/8" BSPP	Aluminium	$ 239.00



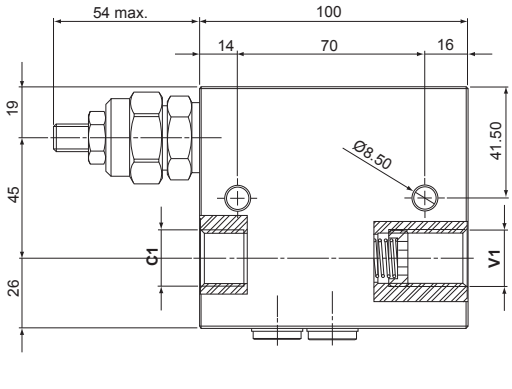


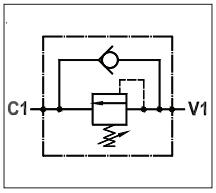


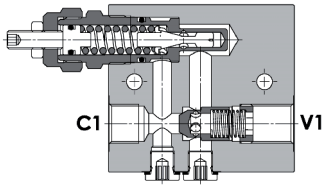
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	50-220	40	50	Green
35	80-350	80	80	Red

Direct Acting Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPSQD70CBP12**	Sequence Valve	80 LPM	280 BAR	1/2" BSPP	Aluminium	$ 178.00
FPSQD70CBP34**	Sequence Valve	80 LPM	280 BAR	3/4" BSPP	Aluminium	$ 178.00





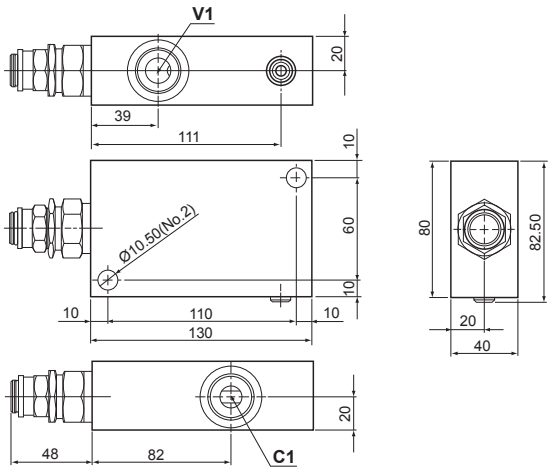


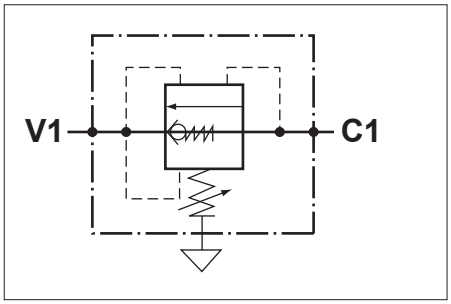
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	9	5	White
10	30-100	19	30	Yellow
20	80-280	35	80	Green

Sequence Valves

Direct Acting Self Compensated Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPSQBD150CB3420	Sequence Valve	150 LPM	350 BAR	3/4" BSPP	Aluminium	$ 409.00

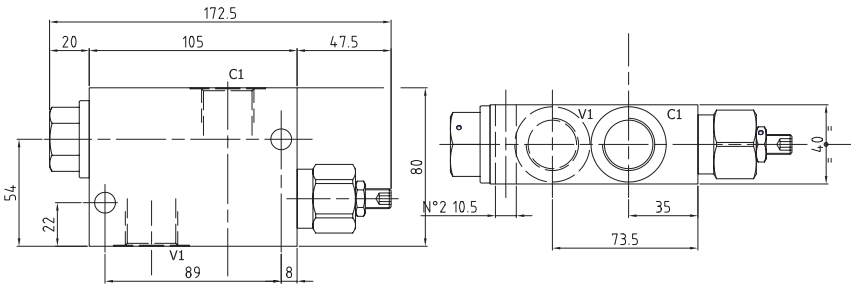


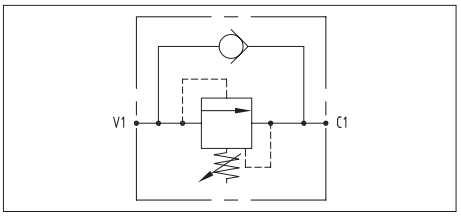


Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
20	60-220	50	150	Green
35	100-350	110	220	Red

Pilot Operated Spool Type Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
206151021000	Sequence Valve	150 LPM	350 BAR	1/2" BSPP	Aluminium	$ 332.00
206151031000	Sequence Valve	150 LPM	350 BAR	3/4" BSPP	Aluminium	$ 332.00

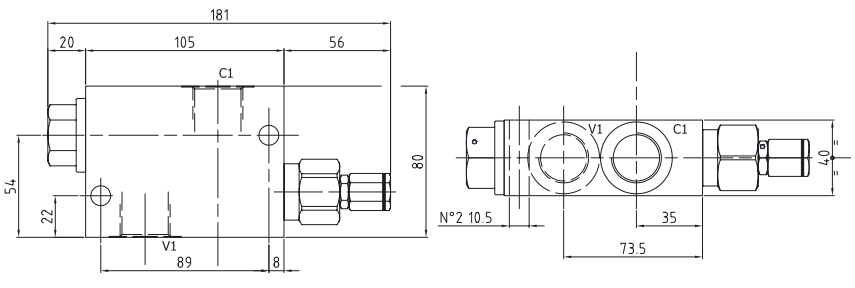


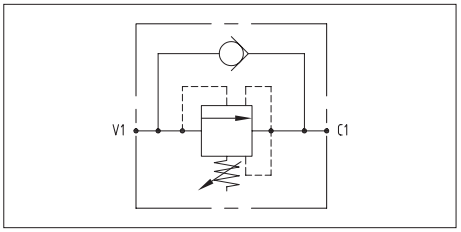


Z	SPRINGS	
	Adj. press. range bar	Std. setting bar
1	10-100	80
2	50-450	250

Pilot Operated Spool Type, Self Compensated Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
206152021000	Sequence Valve	150 LPM	350 BAR	1/2" BSPP	Aluminium	$ 391.00
206152031000	Sequence Valve	150 LPM	350 BAR	3/4" BSPP	Aluminium	$ 391.00



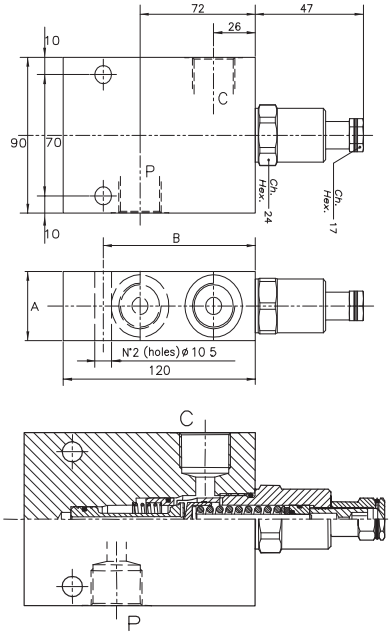


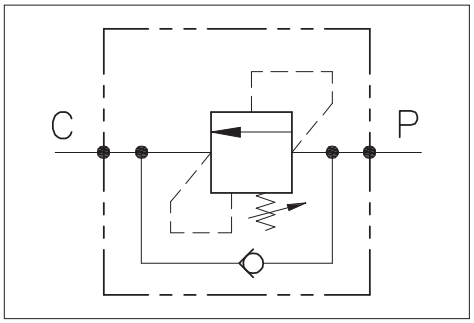
Z	SPRINGS	
	Adj. press. range bar	Std. setting bar
1	10-100	80
2	50-450	250

Sequence Valves

Pilot Operated Spool Type, Self Compensated Sequence

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
0026960X0	Sequence Valve	150 LPM	350 BAR	3/4" BSPP	Steel	$ 400.00
0026970X0	Sequence Valve	180 LPM	350 BAR	1" BSPP	Steel	$ 450.00



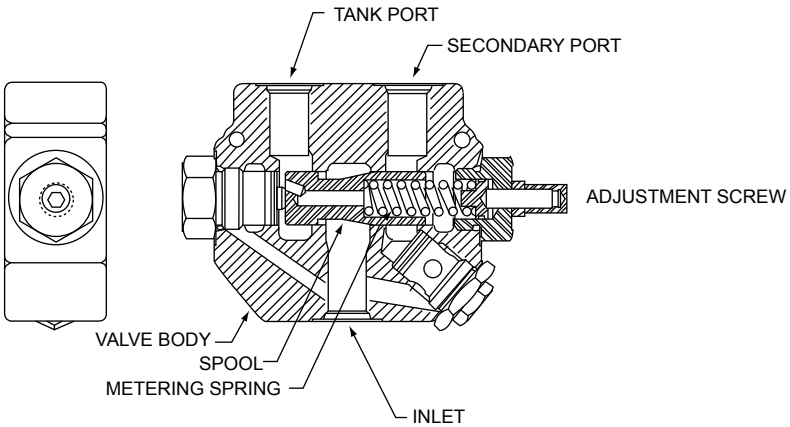


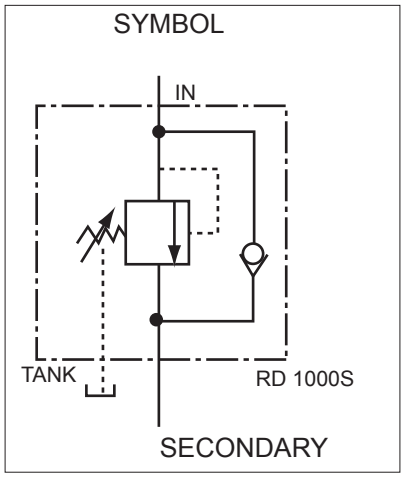
ZZZ	DIMENSIONS					
	Setting Range	A	B	Port Size P-C	Rated Size DN	Maximum Flow Rate l/min - GPM
	696	40	95	3/4" BSPP	12	150 - 40
	697	50	107	1" BSPP	14	180 - 48

RD1000 Sequence Valves

Sequence Valves

Stock No.	Description	Pressure Range	Port Size	Max. Flow	Max. Press.	List Price
RD1050SM	Internally Piloted Sequence Valve with External Drain	350-1700 PSI	1/2" NPTF	20 GPM	3000 PSI	$ 392.00
RD1075SM	Internally Piloted Sequence Valve with External Drain	350-1700 PSI	3/4 NPTF	30 GPM	3000 PSI	$ 392.00





The valve Model RD1050SM is an internally piloted adjustable sequence valve. This valve will prevent the flow of oil from going to the sequence port until the pressure on the inlet port reaches the sequence pressure. The sequence pressure is adjustable within a given range. An in-built check valve allows reverse flow from the sequence port to the inlet.

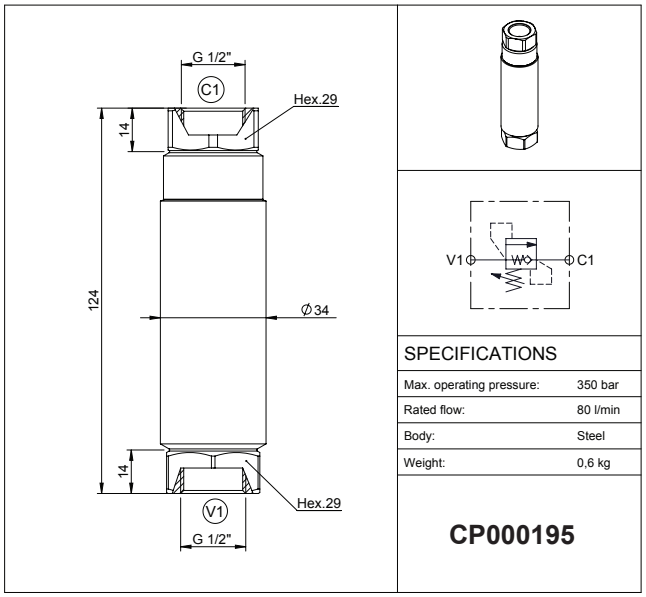
To operate correctly the drain port must be connected to tank.

This valve is a spool type sequence valve and will provide smooth operation but should not be used in applications that require low leakage.

Sequence Valves

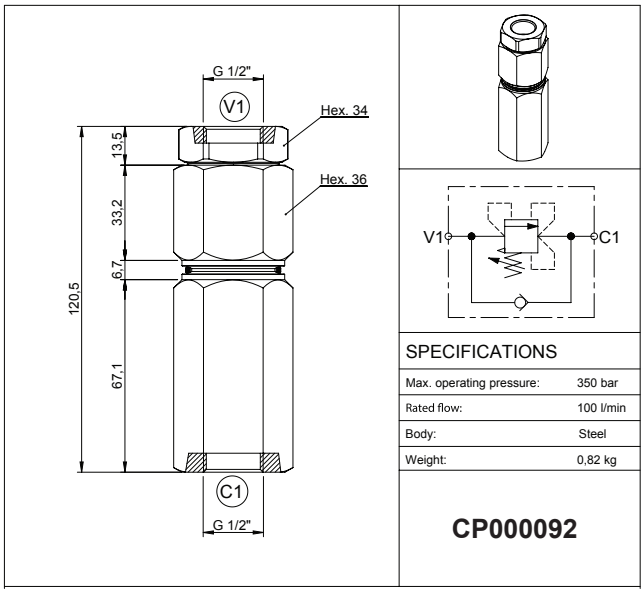
Sequence Valve - Direct Acting

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
CP000195	Sequence Valve - Stabilized	80 LPM	350 BAR	1/2” BSPP	Steel	$ 160.00
CP000092	Sequence Valve - Compensated	100 LPM	350 BAR	1/2” BSPP	Steel	$ 180.00



SPECIFICATIONS	
Max. operating pressure:	350 bar
Rated flow:	80 l/min
Body:	Steel
Weight:	0,6 kg

CP000195



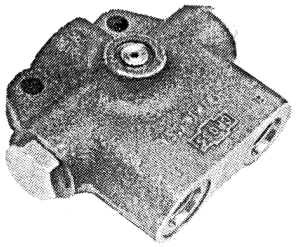
SPECIFICATIONS	
Max. operating pressure:	350 bar
Rated flow:	100 l/min
Body:	Steel
Weight:	0,82 kg

CP000092

Sequence Valve - Row Marker

Stock No.	Description	Maximum Working Pressure	Maximum Flow Rate	Port Size	List Price
128517	Row Marker Sequence Valve	2500 PSI (172 BAR)	2 GPM (7.5 LPM)	3/4” UNO	$ 358.00

The Series SQV or Row Marker Sequence Valve is designed to alternately operate a pair of agricultural guide marker cylinders in a row marker.



SEQUENCE OF OPERATION

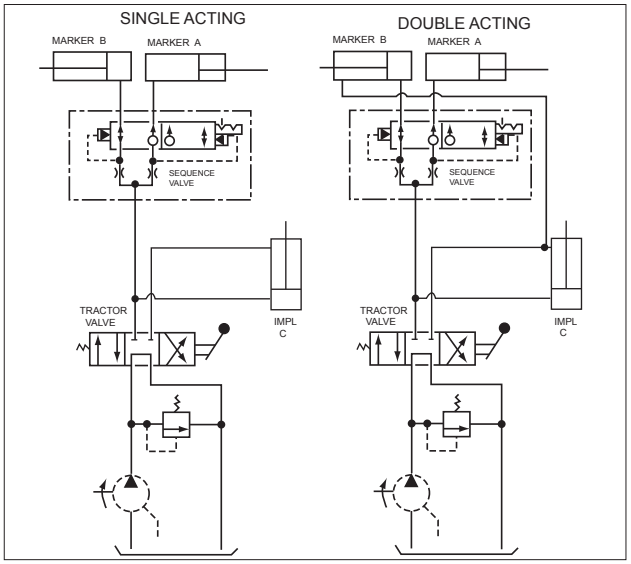
• System diagram and valve layout represent the main cylinder ‘C’ in the retracted position (implement down), with the marker cylinder ‘A’ extended (marker up). Marker cylinder ‘B’ is retracted (marker down).

• At the end of the row, cylinder ‘C’ is extended to lift the implement, pressurising ports ‘A’ and ‘B’ through the sequence valve spool. Marker cylinder ‘B’ would then extend(marker up). No flow would pass through ‘A’ port since cylinder ‘A’ is already extended. This condition causes a pressure drop between the ‘A’ & ‘B’ port ends of the sequence valve which shifts the spool to the ‘B’ port end.

• Starting a new row, main cylinder ‘C’ is retracted (implement down) pressurising marker cylinders ‘A’ and ‘B’ to retract. However, port ‘B’ flow passages are blocked by the spool and the integral check valve in ‘B’ port. Consequently,only marker cylinder ‘A’ is allowed to retract (marker down)

• Upon completion of this row, main cylinder ‘C’ is again extended and the marker cylinder ‘A’ is raised. The pressure differential on the spool shifts the spool to the ‘A’ port end preparing marker cylinder ‘B’ to be lowered.

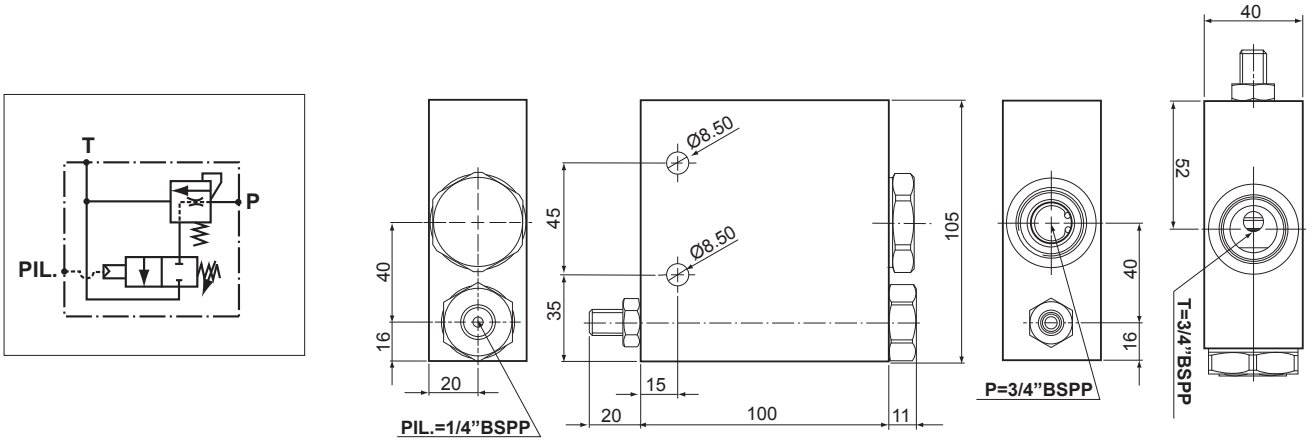
• Once the implement and ‘B’ port marker cylinder are lowered, the guide marker system will have completed its full cycle and be back in its original position.



Unloading Valves

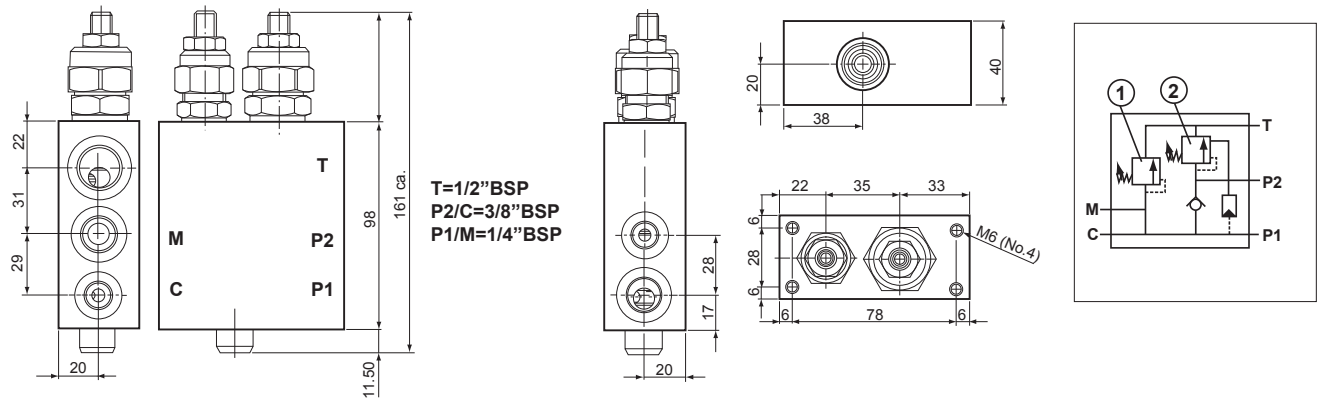
Pilot Operated Unloading Valve

Stock No.	Description	Maximum Flow	Maximum Pressure	Weight	Body	List Price
FPMSP3420	Unloading Valve	150 LPM	300 BAR	1.35 Kg	Aluminium	$ 369.00



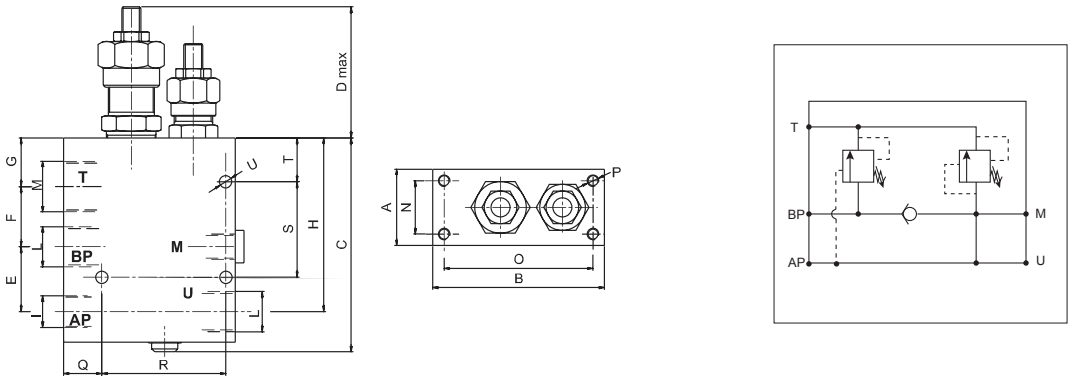
Two Pump Unloading Valve

Stock No.	Description	Maximum Flow	Maximum Pressure	Weight	Body	List Price
FPMSEPDP382010	Unloading Valve	30 LPM	350 BAR	1.30 Kg	Aluminium	$ 419.00



Two Pump Unloading Valve

Stock No.	Description	Maximum Flow	Maximum Pressure	Weight	Body	List Price
VEABP04	Unloading Valve	90 LPM	350 BAR	3.00 Kg	Aluminium	$ 500.00



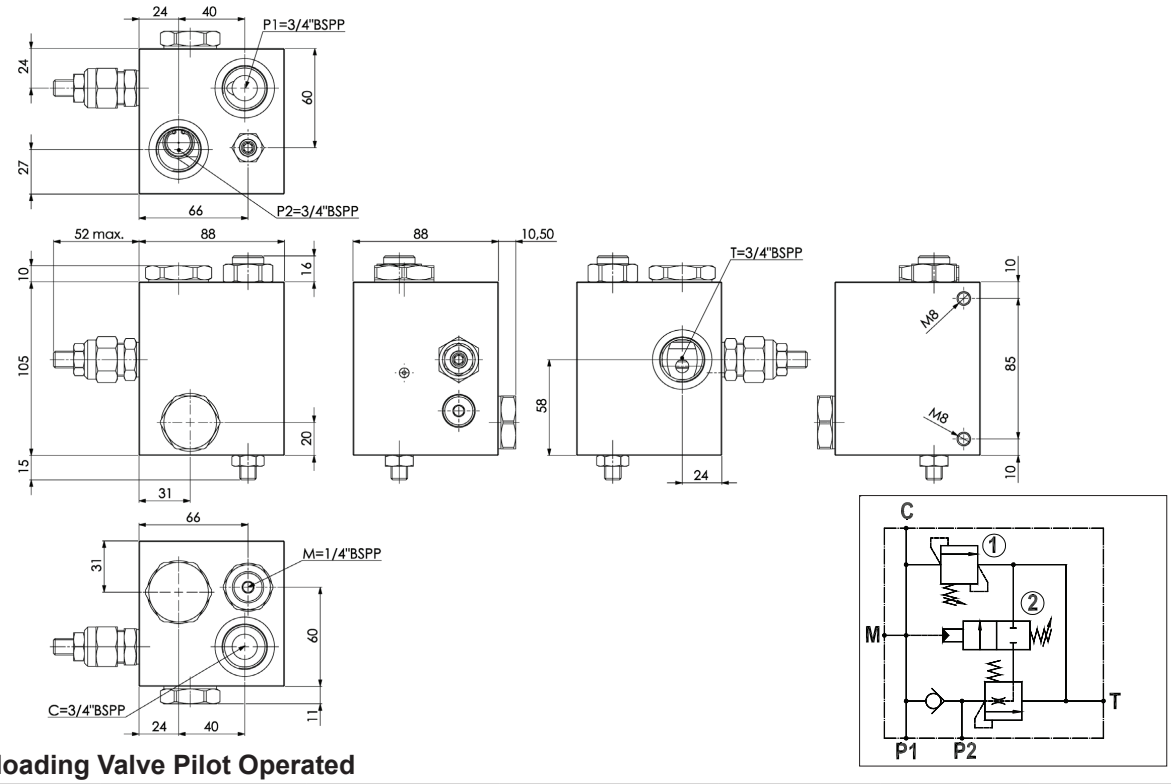
Dimensional Details

Type	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	U
04	50	110	128	77	35.5	44	24.5	97.5	1/2	3/4	1"	38	98	M6	26.5	75	65	12	6.5

Unloading Valves

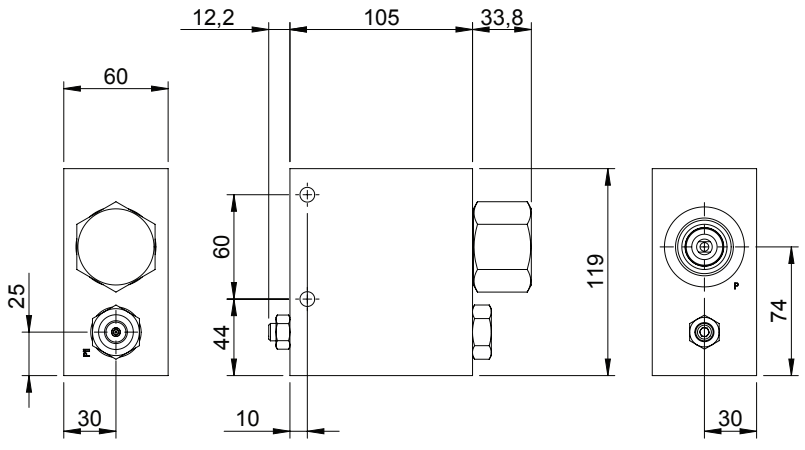
Two Pump Unloading Valve

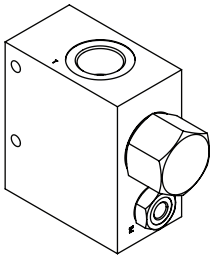
Stock No.	Description	Maximum Flow	Maximum Pressure	Weight	Body	List Price
FPMSPDP342020	Unloading Valve	150 LPM	300 BAR	2.4 Kg	Aluminium	$ 549.00

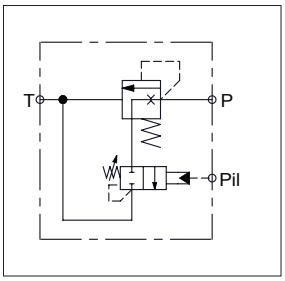


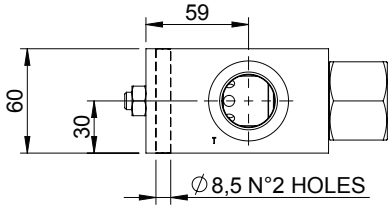
Pump Unloading Valve Pilot Operated

Stock No.	Description	Maximum Flow	Maximum Pressure	Weight	Body	List Price
MT000007	Unloading Valve	250 LPM	210 BAR	2.5 Kg	Aluminium	$ 450.00







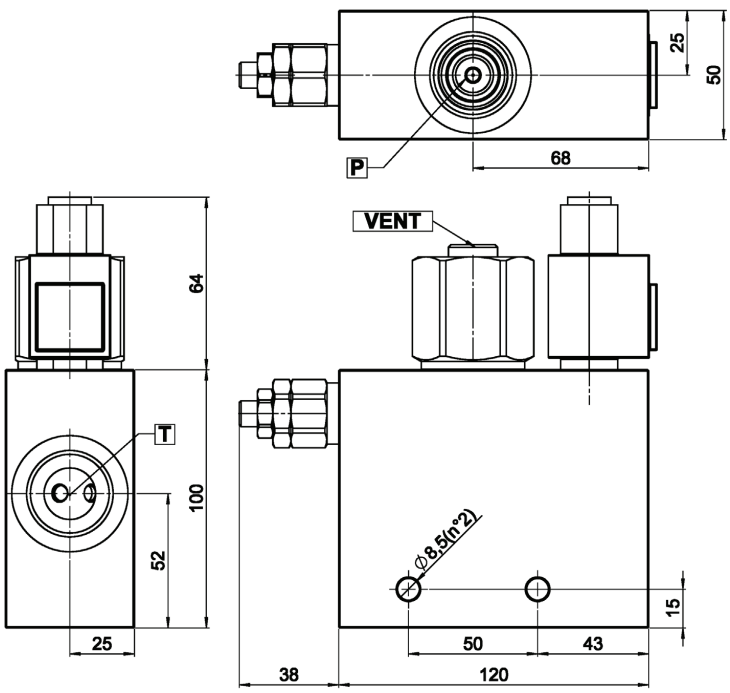


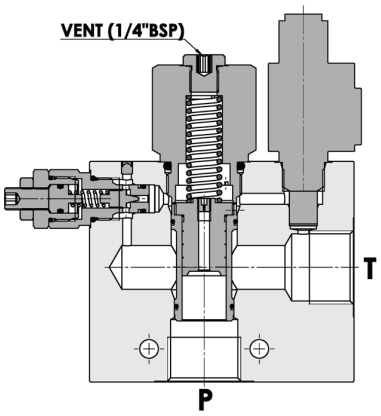
Specifications	
Max. operating pressure	210 bar
Rated flow	250 l/min
Manifold	Aluminium
Weight	2.49 kg

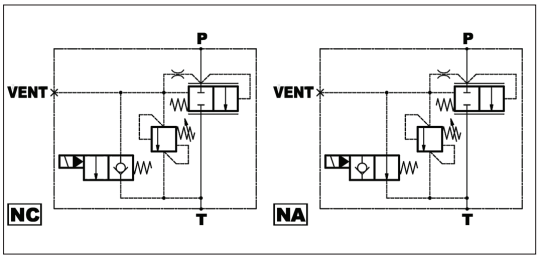
Solenoid Unloading Valves

Solenoid Operated Unloading Valves with Relief

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
FPMPEV12NA200P135	Unloading 12 Volt	200 LPM	350 BAR	1" BSPP	Aluminium	$ 660.00
FPMPEV24NA200P135	Unloading 24 Volt	200 LPM	350 BAR	1" BSPP	Aluminium	$ 660.00

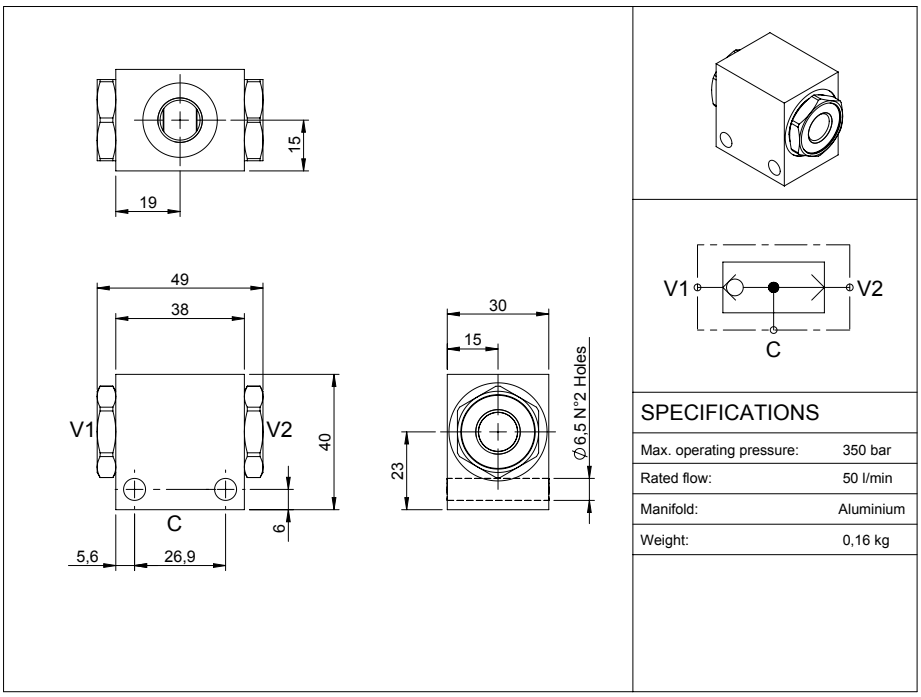






Shuttle Valve

Stock No.	Description	Maximum Flow	Maximum Pressure	Weight	Body	List Price
MD000001	Shuttle Valve	50 LPM	300 BAR	0.16 KG	Aluminium	$ 54.00



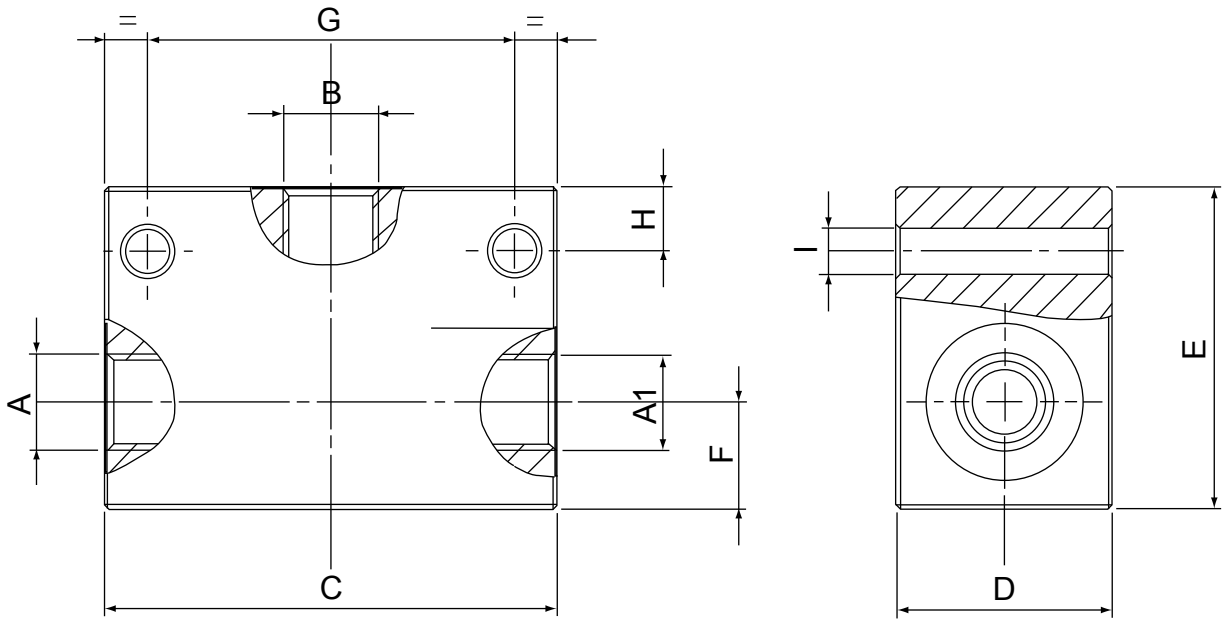
SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	50 l/min
Manifold:	Aluminium
Weight:	0,16 kg

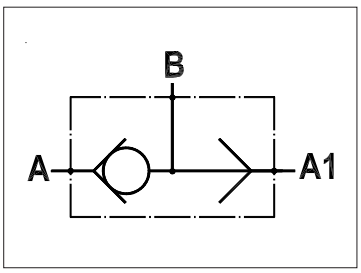
FPT Shuttle Valves

Shuttle Valves

Stock No.	Description	Max. Flow	Max Press.	A-A1-B BSPP	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Wt Kg	List Price
FPT14	Shuttle Valve	25 LPM	350 BAR	1/4”	63	30	45	15	51	9	6.5	0.57	$ 58.00
FPT38	Shuttle Valve	50 LPM	350 BAR	3/8”	63	30	45	15	51	9	6.5	0.53	$ 58.00
FPT12	Shuttle Valve	80 LPM	300 BAR	1/2”	90	40	60	20	75	7.5	8.5	1.45	$ 94.00
FPT34	Shuttle Valve	110 LPM	300 BAR	3/4”	90	40	60	20	75	7.5	8.5	1.35	$ 138.00
FPT1	Shuttle Valve	180 LPM	300 BAR	1”	126	46	80	26	60	11	10.5	1.90	$ 160.00



USE AND OPERATION
Three ported shuttle valves are used in load sensing circuits, to release hydraulic brake circuits for an auxiliary function. Provide a pressure signal from the higher of two isolated inputs.



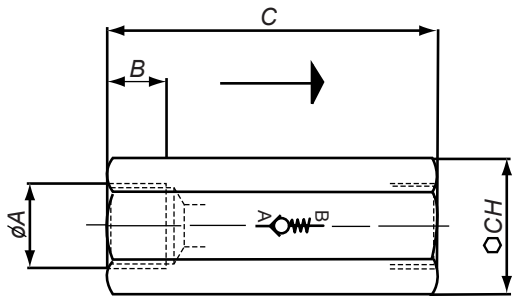
SPECIFICATIONS
Materials: body, high quality steel with external surface silver zinc plated. Internal parts, steel.
Rated flow: to 110 l/min.
Max pressure: 350 bar - 1/4” & 3/8”, 300 bar - 1/2”, 3/4” and 1” BSPP.
Ports: 1/4”, 3/8”, 1/2”, 3/4” and 1” BSPP.
Fluids: recommended fluid is oil mineral.
Viscosity range: 5 to 500 Cst.
Operating temperature: from -20°C to +90°C.
Filtration level: recommended 25 micron nominal.

FEATURES
When a higher pressure is sensed at inlet A than at inlet A1 the ball is forced against a seat which blocks inlet A1 and opens up A to B. The contrary when higher pressure is sensed at inlet A1 than at inlet A.

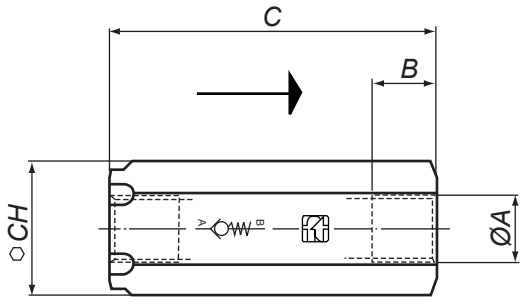
FT Check Valves

Check Valves

Stock No.	Description	Max. Pressure	Cracking Pressure		A BSPP	B mm	C mm	CH mm	Wt Kg	List Price
			BAR	PSI						
FT260618	Check Valve (Ball Type)	350 BAR	0.35 BAR	5 PSI	1/8”	8.5	41	16	0.054	$ 40.00
FT260614	Check Valve (Ball Type)	350 BAR	0.35 BAR	5 PSI	1/4”	12.5	54	19	0.089	$ 35.00
FT260638	Check Valve (Ball Type)	350 BAR	0.35 BAR	5 PSI	3/8”	12.5	65	24	0.175	$ 40.00
FT260612	Check Valve (Ball Type)	350 BAR	0.35 BAR	5 PSI	1/2”	15.5	77	30	0.310	$ 49.00
FT260634	Check Valve (Ball Type)	350 BAR	0.35 BAR	5 PSI	3/4”	17	88	36	0.450	$ 66.00
FT2606100	Check Valve (Ball Type)	320 BAR	0.35 BAR	5 PSI	1”	20	108.5	46	0.965	$ 113.00
FT2576114	Check Valve (Poppet Type)	320 BAR	0.35 BAR	5 PSI	1-1/4”	22	137.5	46	1.615	$ 194.00
FT2576112	Check Valve (Poppet Type)	250 BAR	0.35 BAR	5 PSI	1-1/2”	24	159	65	3.130	$ 563.00
FT2576200	Check Valve (Poppet Type)	200 BAR	0.35 BAR	5 PSI	2”	27	198	75	4.900	$ 667.00



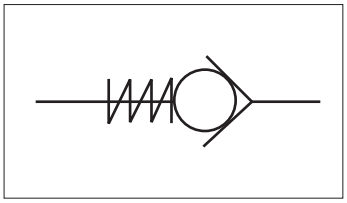
FT260 Style



FT2576 Style

Stainless Steel Check Valves (Ball Type)

Stock No.	Description	Max. Pressure	Cracking Pressure		A BSPP	B mm	C mm	CH mm	Wt Kg	List Price
			BAR	PSI						
FT2260618	Stainless Steel Check Valve	350 BAR	0.35 BAR	5 PSI	1/8”	8.5	41	16	0.054	$ 77.00
FT2260614	Stainless Steel Check Valve	350 BAR	0.35 BAR	5 PSI	1/4”	12.5	54	19	0.089	$ 120.00
FT2260638	Stainless Steel Check Valve	350 BAR	0.35 BAR	5 PSI	3/8”	12.5	65	24	0.175	$ 132.00
FT2260612	Stainless Steel Check Valve	350 BAR	0.35 BAR	5 PSI	1/2”	15.5	77	30	0.310	$ 168.00
FT2260634	Stainless Steel Check Valve	350 BAR	0.35 BAR	5 PSI	3/4”	17	88	36	0.450	$ 240.00
FT22606100	Stainless Steel Check Valve	320 BAR	0.35 BAR	5 PSI	1”	20	108.5	46	0.965	$ 319.00



FPR Check Valves

Check Valves

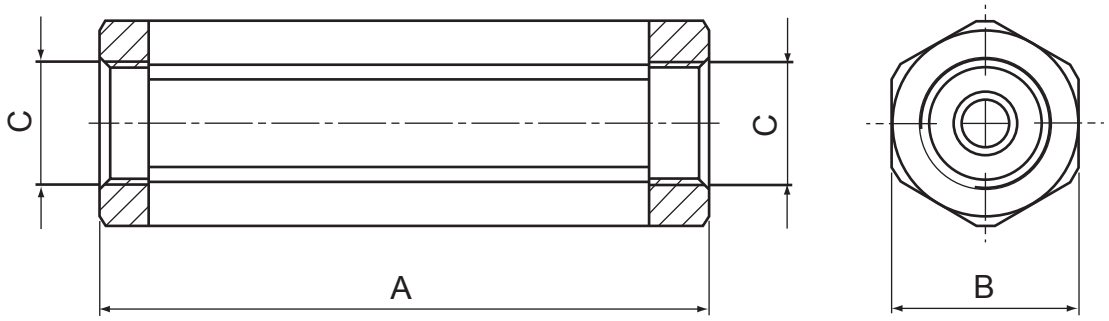
Stock No.	Description	Max. Flow Rate	Maximum Pressure	Cracking Pressure	A mm	B mm	C BSPP	Wt Kg	List Price
FPR14	Check Valve	12 LPM	350 BAR	0.5 BAR	62	19	1/4”	0.10	$ 29.00
FPR38	Check Valve	30 LPM	350 BAR	0.5 BAR	68	24	3/8”	0.17	$ 33.00
FPR12	Check Valve	45 LPM	320 BAR	0.5 BAR	78	27	1/2”	0.22	$ 41.00
FPR34	Check Valve	85 LPM	300 BAR	0.5 BAR	88	36	3/4”	0.45	$ 55.00
FPR1	Check Valve	140 LPM	250 BAR	0.5 BAR	112	46	1”	0.97	$ 94.00
FPR114	Check Valve	200 LPM	250 BAR	0.5 BAR	145	55	1-1/4”	1.68	$ 162.00
FPR112	Check Valve	310 LPM	210 BAR	0.5 BAR	155	60	1-1/2”	2.10	$ 173.00

USE AND OPERATION
Check valves allow free flow in one direction and block flow in the reverse direction.

FEATURES
The perfect machining of poppet and seat assures good sealing. The internal spring provides fast acting and also an unrestricted mounting position.

SPECIFICATIONS

Materials	Body, high quality steel, Guided poppet hardened steel. External surface yellow zinc plated.
Rated Flow	To 310 litres per minute.
Maximum Pressure	350 bar - See table above.
Cracking Pressure	Standard 0.5 bar, if required 2.5, 5 or 10 bar.
Fluids	Recommended fluid is mineral oil.
Viscosity Range	5 to 500 Cst.
Operating Temperature	From -20°C to +90°C
Filtration Level	Recommended 25 micron nominal

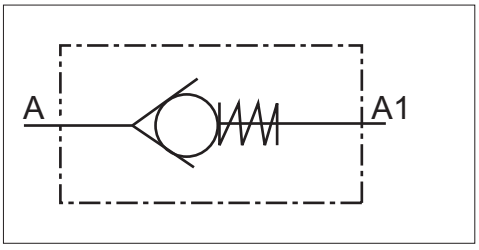


ORDERING INFORMATION

FPR	38	5

Size	
Code	BSPP
14	1/4”
38	3/8”
12	1/2”
34	3/4”
1	1”
114	1-1/4”
112	1-1/2”

Cracking Pressure	
Code	Pressure
Omit	0.5 BAR
2.5	2.5 BAR
5	5 BAR
10	10 BAR



VUR Check Valves

Check Valves

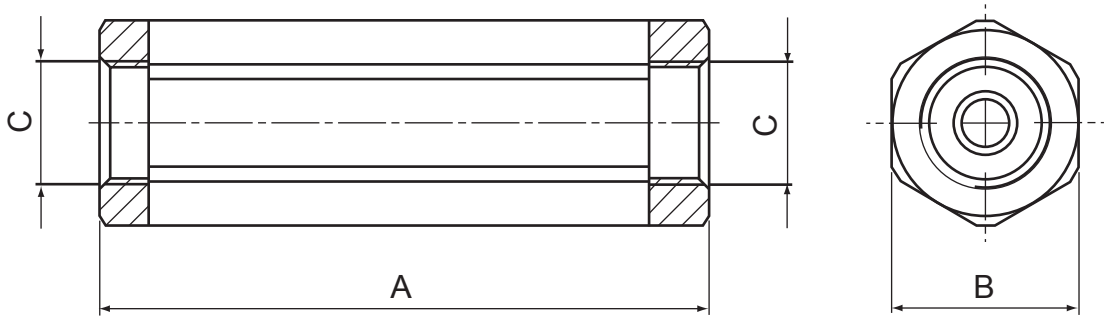
Stock No.	Description	Max. Flow Rate	Maximum Pressure	Cracking Pressure	A mm	B mm	C UN	Wt Kg	List Price
VUR015CS	Check Valve	30 LPM	400 BAR	0.5 BAR	60	19	9/16”	0.10	$ 29.00
VUR02CS	Check Valve	50 LPM	400 BAR	0.5 BAR	69	24	3/4”	0.18	$ 33.00
VUR03CS	Check Valve	90 LPM	350 BAR	0.5 BAR	79	30	7/8”	0.31	$ 41.00
VUR04CS	Check Valve	130 LPM	300 BAR	0.5 BAR	94	36	1-1/16”	0.56	$ 55.00
VUR05CS	Check Valve	180 LPM	270 BAR	0.5 BAR	106	45	1-5/16”	0.91	$ 94.00

USE AND OPERATION
Check valves allow free flow in one direction and block flow in the reverse direction.

FEATURES
The perfect machining of poppet and seat assures good sealing. The internal spring provides fast acting and also an unrestricted mounting position.

SPECIFICATIONS

Materials	Body, high quality steel, Guided poppet hardened steel. External surface yellow zinc plated.
Rated Flow	To 180 litres per minute.
Maximum Pressure	400 bar - See table above.
Cracking Pressure	Standard 0.5 bar, if required 4 or 8 bar.
Fluids	Recommended fluid is mineral oil.
Viscosity Range	5 to 500 Cst.
Operating Temperature	From -20°C to +90°C
Filtration Level	Recommended 25 micron nominal



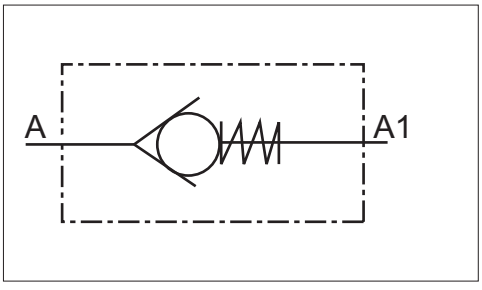
ORDERING INFORMATION

VUR	02	C	S

Size	
Code	SAE
015	9/16 - 18
02	3/4 - 16
03	7/8 - 14
04	1-1/16 - 12
05	1-5/16 - 12

Type	
C	Poppet Type

Port Type	
S	SAE



FPR*MF* Check Valves

Check Valves

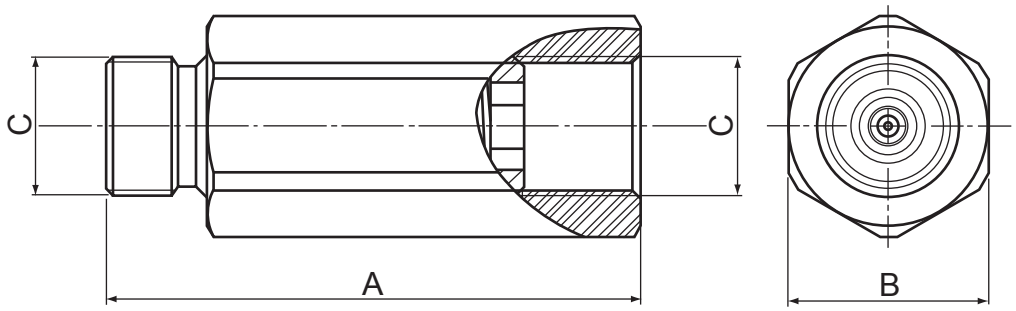
Stock No.	Description	Max. Flow Rate	Maximum Pressure	Cracking Pressure	A mm	B mm	C BSPP	Wt Kg	List Price
FPR14MF	Check Valve	12 LPM	350 BAR	0.5 BAR	58	19	1/4”	0.10	$ 29.00
FPR38MF	Check Valve	30 LPM	350 BAR	0.5 BAR	64	24	3/8”	0.17	$ 33.00
FPR12MF	Check Valve	45 LPM	320 BAR	0.5 BAR	72	27	1/2”	0.22	$ 41.00
FPR34MF	Check Valve	85 LPM	300 BAR	0.5 BAR	84	36	3/4”	0.45	$ 55.00
FPR1MF	Check Valve	140 LPM	250 BAR	0.5 BAR	105	46	1”	0.97	$ 94.00
FPR114MF	Check Valve	200 LPM	250 BAR	0.5 BAR	125	55	1-1/4”	1.68	$ 162.00

USE AND OPERATION
Check valves allow free flow in one direction and block flow in the reverse direction.

FEATURES
The perfect machining of poppet and seat assures good sealing. The internal spring provides fast acting and also an unrestricted mounting position.

SPECIFICATIONS

Materials	Body, high quality steel, Guided poppet hardened steel. External surface yellow zinc plated.
Rated Flow	To 310 litres per minute.
Maximum Pressure	350 bar - See table above.
Cracking Pressure	Standard 0.5 bar, if required 2.5, 5 or 10 bar.
Fluids	Recommended fluid is mineral oil.
Viscosity Range	5 to 500 Cst.
Operating Temperature	From -20°C to +90°C
Filtration Level	Recommended 25 micron nominal

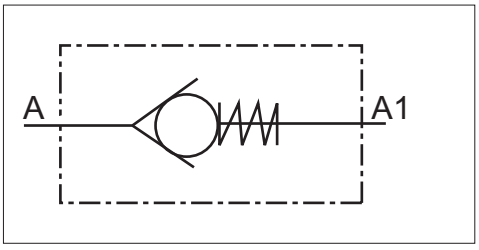


ORDERING INFORMATION

FPR	38MF	5

Size	
Code	BSPP
14	1/4”
38	3/8”
12	1/2”
34	3/4”
1	1”
114	1-1/4”
112	1-1/2”

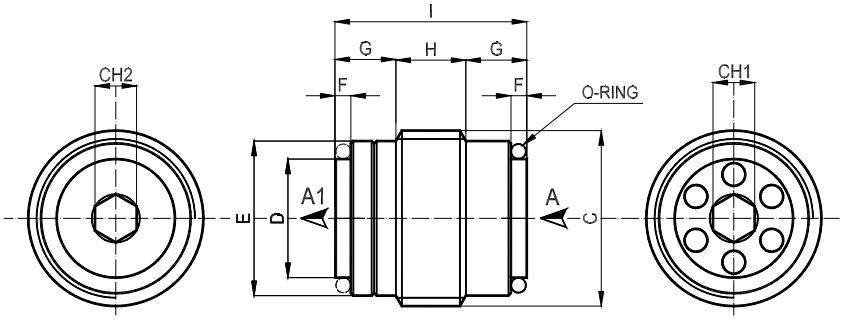
Cracking Pressure	
Code	Pressure
Omit	0.5 BAR
2.5	2.5 BAR
5	5 BAR
10	10 BAR

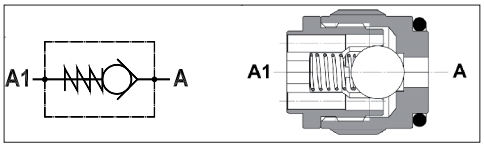


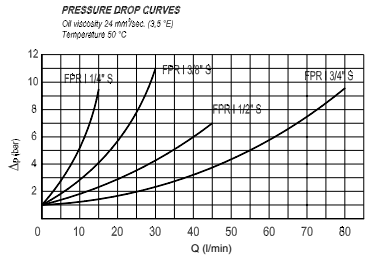
FPRI*S Cartridge Check Valves

Cartridge Insert Check Valves

Stock No.	Description	Max. Flow Rate	Maximum Pressure	Port Size	Cracking Pressure	Wt Kg	List Price
FPRI14S	Insert Check Valve	15	350 BAR	1/4" BSPP	1 BAR	0.015	$ 32.00
FPRI38S	Insert Check Valve	30	350 BAR	3/8" BSPP	1 BAR	0.025	$ 38.00
FPRI12S	Insert Check Valve	45	350 BAR	1/2" BSPP	1 BAR	0.040	$ 42.00
FPRI34S	Insert Check Valve	80	350 BAR	3/4" BSPP	1 BAR	0.070	$ 55.00







Type	Maximum Flow	Maximum Pressure	C	D	E	F	G	H	I	CH1	CH2	O-ring	Weight
	L/min	Bar	BSPP	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg
FPRI 1/4" S	15	350	1/4"	9.2	11.4	1.1	5.5	6.5	17.5	3	3	9x1	0.015
FPRI 3/8" S	30	350	3/8"	10.9	14.9	2.1	5.6	7.5	18.7	3	4	10.8x1.78	0.025
FPRI 1/2" S	45	350	1/2"	14.2	18.5	2.1	7.2	8.6	23	5	6	14x1.78	0.040
FPRI 3/4" S	80	300	3/4"	18.1	24.1	3	7	14.5	28.5	6	8	17.86x2.62	0.070

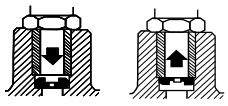
Cross - Fixed Orifice Flow Control

Stock No.	Description	To Fit Port Sizes		List Price
1A0741	Retainer	1/2" NPT/BSP	3/4" UNO	$ 20.00
1A0742	Orifice Plate	1/2" NPT/BSP		$ 20.00

INSTALLATION INSTRUCTIONS

Insert orifice plate into port in proper position to obtain desired direction of flow restriction. Lips of plate always point toward the pressure source to assure proper seating. (For "IN-FLOW" restriction, plate tips point "OUT". For "OUT-FLOW" restriction, plate lips point "IN".

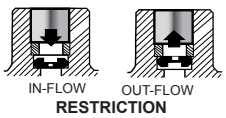
3/4 - 16 (SAE#8) Ports



RESTRICTION

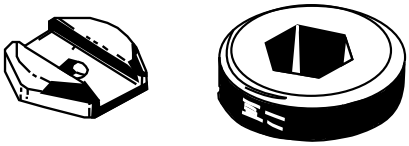
The lower face of the fitting inserted into the port will limit the upward travel of the orifice plate.

1/2" NPTF Ports



RESTRICTION

It is necessary to use the retainer (#1A0741) screwed into the port until it bottoms on the port thread, to limit the upward travel of the orifice plate. CAUTION: After installation of retainer, check to see that orifice plate is free to move at least 1/32 inch.



APPLICATION

"IN-FLOW" POSITION

Orifice plates installed in this position restrict flow entering the valve port from a cylinder or motor, offering these advantages:
1: Prevents cavitation of a cylinder or motor having an inertia load.
2: Improves control of operation for double or single acting cylinders when lowering.
3: Improves control of rotary cylinders which have inertia loads in both directions. (Use an orifice plate in both cylinder ports.)

"OUT-FLOW" POSITION

Orifice plates installed in this position restrict flow of pressurised oil flowing out of the vane port to a cylinder or motor, offering the advantage of: Improved control for extending single or double acting cylinders or speed of a hydraulic motor.

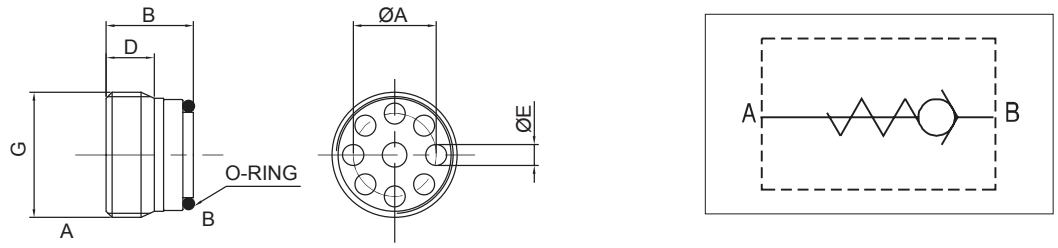
$$\text{DIA.} = 0.23\sqrt{\frac{\text{GPM}}{\text{PSI}}}$$

Where: GPM - Required for desired speed of operation
PSI - System Pressure

VRR Cartridge Check Valves

Cartridge Insert Check Valves - BSP

Stock No.	Description	Max. Flow Rate	Maximum Pressure	Port Size	Cracking Pressure	Wt Kg	List Price
VRR01	Insert Check Valve	20	350 BAR	1/4” BSPP	0.5 BAR	0.01	$ 32.00
VRR02	Insert Check Valve	50	350 BAR	3/8” BSPP	0.5 BAR	0.02	$ 38.00
VRR03	Insert Check Valve	80	350 BAR	1/2” BSPP	0.5 BAR	0.03	$ 42.00

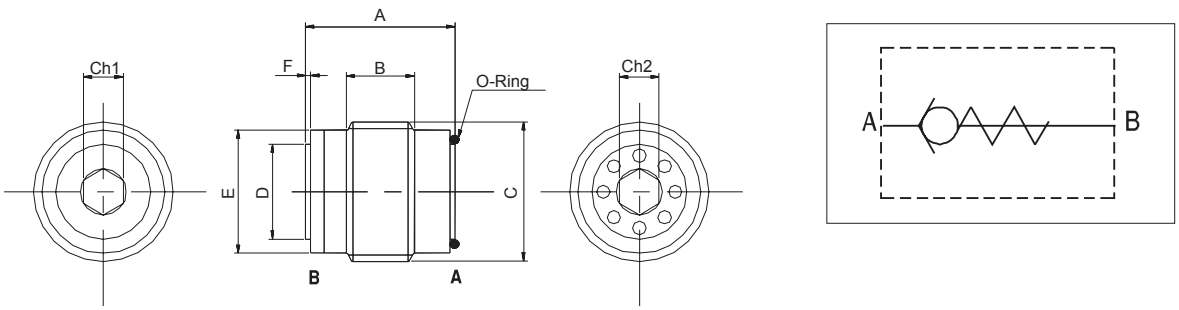


Type	A	B	G - Gas	G - SAE	D	E	O-Ring	Weight
01	8.8	8.8	1/4	-	4.2	2.2	1 x 8	0.01
02	10.8	12	3/8	3/4-16	7	3	1.5 x 11	0.02
03	13.8	14.8	1/2	7/8 - 14	8	3.5	1.78 x 14	0.03

VUI Cartridge Check Valves

Cartridge Insert Check Valves - UN

Stock No.	Description	Max. Flow Rate	Maximum Pressure	Port Size	Cracking Pressure	Wt Kg	List Price
VUI015	Insert Check Valve	18	350 BAR	9/16” UN	0.5 BAR	0.02	$ 32.00
VUI02	Insert Check Valve	25	350 BAR	3/4” UN	0.5 BAR	0.03	$ 38.00
VUI03	Insert Check Valve	50	350 BAR	7/8” UN	0.5 BAR	0.04	$ 42.00
VUI04	Insert Check Valve	78	350 BAR	1-1/16” UN	0.5 BAR	0.07	$ 55.00

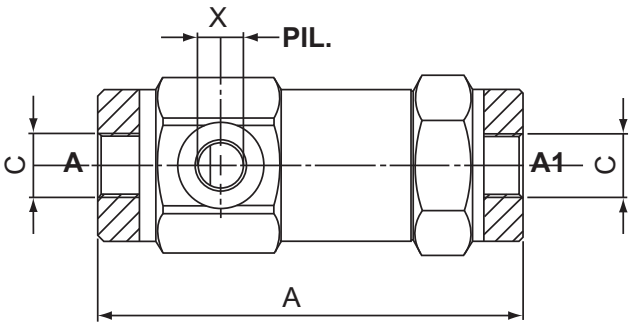


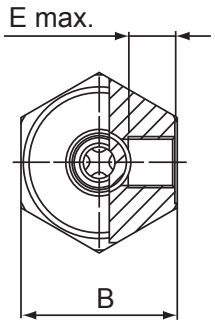
Type	A	B	C - Gas	C - SAE	D	E	F	Ch1	Ch2	D-Ring	Weight
015	17	6	1/4	-	9.2	11.3	1	3	3	1 x 9	0.01
02	18.5	7.5	3/8	3/4 - 16	11	14.8	1.8	4	3	1.78 x 10.82	0.02
03	23	9.5	1/2	7/8 - 14	14	18.5	1.8	6	5	1.78 x 14	0.04
04	28.5	14.5	3/4	1-1/16 - 12	19	24	2.7	8	8	2.62 x 18.72	0.07

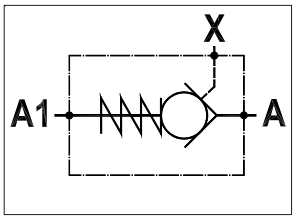
FPS Single PO Check Valves

Single Pilot Operated Check Valves - In Line - Steel

Stock No.	Description	Max. Flow Rate	Maximum Pressure	A mm	B mm	C BSPP	X BSPP	E mm	Wt Kg	List Price
FPS14	Pilot Operated Check	12 LPM	350 BAR	103	36	1/4”	1/4”	11	0.65	$ 154.00
FPS38	Pilot Operated Check	30 LPM	310 BAR	109	40	3/8”	1/4”	11.5	0.82	$ 162.00
FPS12	Pilot Operated Check	45 LPM	310 BAR	120	42	1/2”	1/4”	11	0.96	$ 186.00
FPS34	Pilot Operated Check	85 LPM	300 BAR	131	55	3/4”	1/4”	14	1.95	$ 260.00
FPS1	Pilot Operated Check	130 LPM	260 BAR	164	55	1”	1/4”	14	2.50	$ 290.00



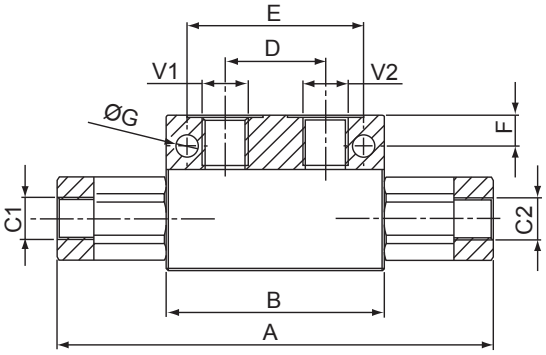


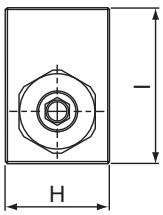


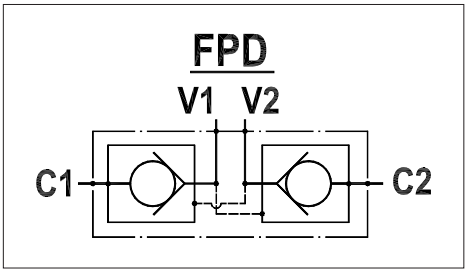
FPD Double PO Check Valves

Double Pilot Operated Check Valves - Line Mounted - Steel

Stock No.	Description	Max. Flow Rate	Maximum Pressure	Port Size	Pilot Ratio	Wt Kg	List Price
FPD14	Pilot Operated Check	12 LPM	350 BAR	1/4” BSPP	1:4	0.65	$ 109.00
FPD3820L	Pilot Operated Check	20 LPM	300 BAR	3/8” BSPP	1:4	0.62	$ 115.00
FPD38	Pilot Operated Check	30 LPM	300 BAR	3/8” BSPP	1:6	1.75	$ 115.00
FPD12	Pilot Operated Check	45 LPM	300 BAR	1/2” BSPP	1:4	1.78	$ 125.00
FPD34	Pilot Operated Check	85 LPM	280 BAR	3/4” BSPP	1:3.6	3.25	$ 167.00





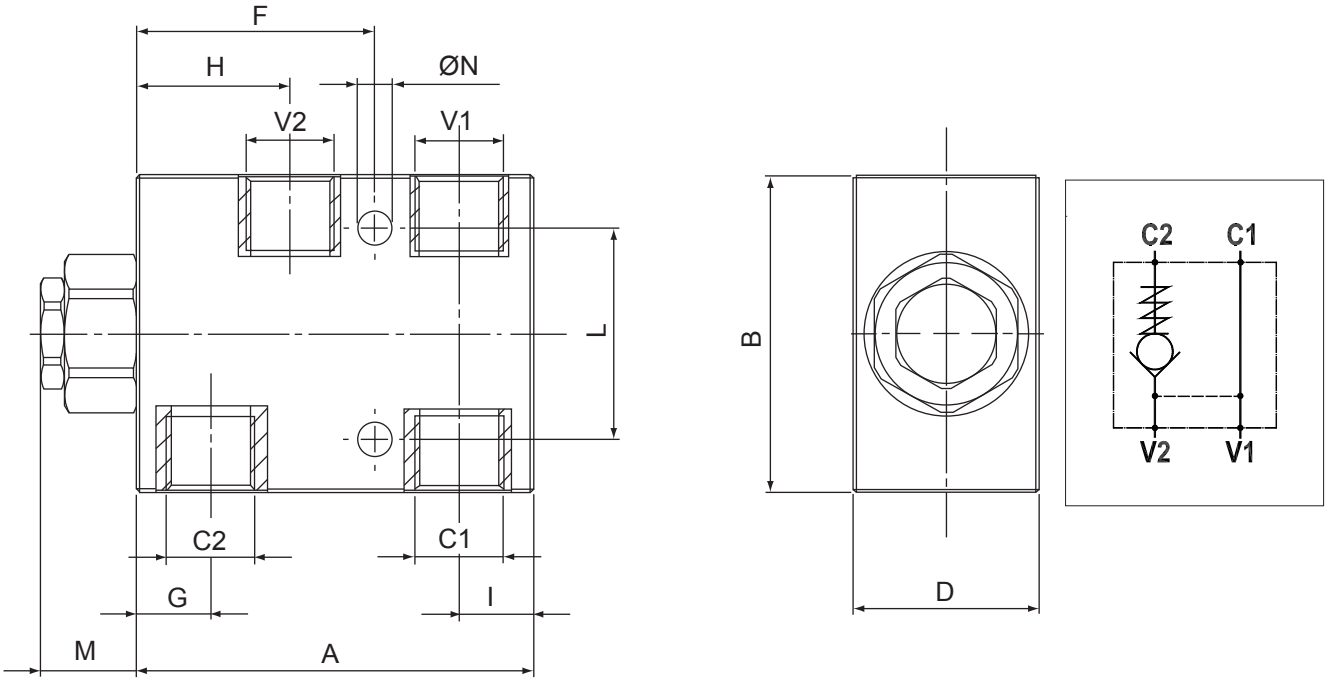


Type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm
FPD14	126	63	1/4”	29	51	9	6.5	30	45
FPD3820L*	126	63	3/8”	29	-	-	-	30	45
FPD38	158	90	3/8”	40	75	17	8	40	60
FPD12	174	90	1/2”	40	75	17	8	40	60
FPD34	212	120	3/4”	60	104	16	9	50	70
*FPD3820L is supplied without mounting holes.									

FPSL Single PO Check Valves

Single Pilot Operated Check Valves - In Line Block

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Pilot Ratio	Body	List Price
FPSL38	Pilot Operated Check with Through Port	30 LPM	210 BAR	3/8” BSPP	1:7	Aluminium	$ 118.00
FPSL385G	Pilot Operated Check with Through Port	30 LPM	210 BAR	3/8” BSPP	1:7	Aluminium	$ 118.00
FPSL38S	Pilot Operated Check with Through Port	30 LPM	350 BAR	3/8” BSPP	1:7	Steel	$ 136.00
FPSL12	Pilot Operated Check with Through Port	45 LPM	210 BAR	1/2” BSPP	1:3.5	Aluminium	$ 142.00
FPSL12S	Pilot Operated Check with Through Port	45 LPM	350 BAR	1/2” BSPP	1:3.5	Steel	$ 164.00
FPSL34	Pilot Operated Check with Through Port	85 LPM	210 BAR	3/4” BSPP	1:4	Aluminium	$ 158.00

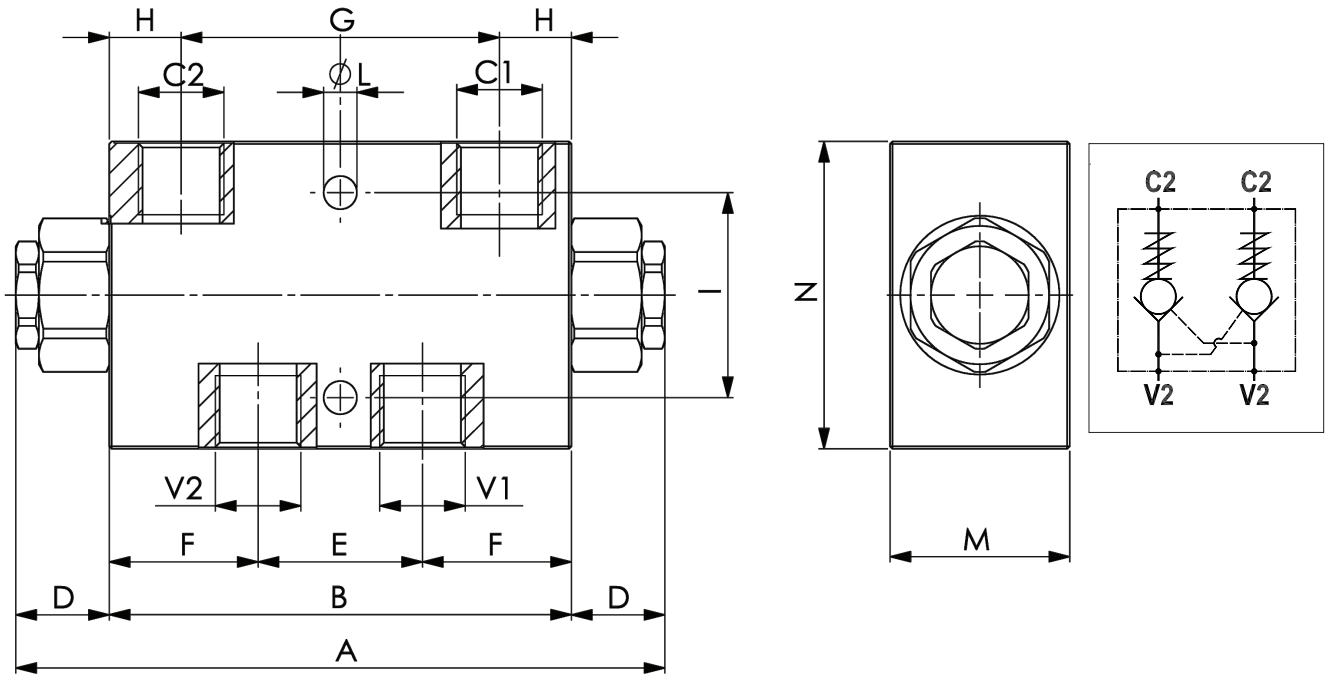


Type	A mm	B mm	D mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm
FPSL38	75	60	35	45	14	29	14	40	18.5	6.5
FPSL12	95	70	35	55	21	38	19	40	15	8.5
FPSL34	135	90	50	80	30	57..5	22	50	14	10.5

FPDL Double PO Check Valves

Double Pilot Operated Check Valves - Line Mounted

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Pilot Ratio	Body	List Price
FPDL38	Double Pilot Operated Check	30 LPM	210 BAR	3/8” BSPP	1:7	Aluminium	$ 153.00
FPDL38GS	Double Pilot Operated Check	30 LPM	350 BAR	3/8” BSPP	1:7	Steel	$ 203.00
FPDL12	Double Pilot Operated Check	45 LPM	210 BAR	1/2” BSPP	1:3.5	Aluminium	$ 165.00
FPDL12GS	Double Pilot Operated Check	45 LPM	350 BAR	1/2” BSPP	1:3.5	Steel	$ 219.00
FPDL34	Double Pilot Operated Check	85 LPM	210 BAR	3/4” BSPP	1:4	Aluminium	$ 311.00

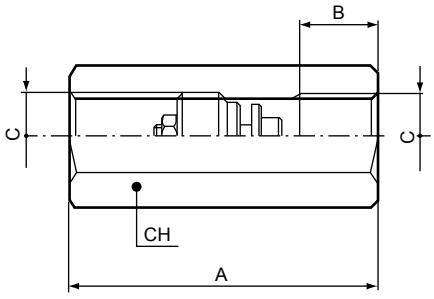


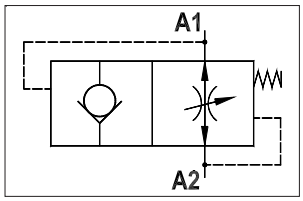
Type	A mm	B mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm
FPDL38	127	90	18.5	32	29	62	14	40	6.5	35	60
FPDL12	138	110	14.5	34	38	68	21	40	8.5	35	70
FPDL34	193	165	14	50	57.5	107	29	60	8.5	50	90

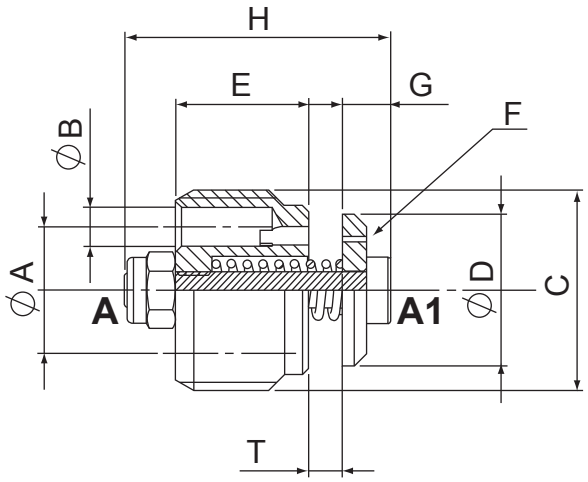
FFP/FPP Hose Burst Valves

Hose Burst Valve Assembly (WARNING - These valves are not preset for reaction flow)

Stock No.	Description	Max. Flow Rate	Maximum Pressure	A mm	B mm	C BSPP	CH mm	Wt Kg	List Price
FFP14	FPP Cartridge complete with Housing	25 LPM	350 BAR	48	12	1/4”	19	0.075	$ 48.00
FFP38	FPP Cartridge complete with Housing	50 LPM	350 BAR	52	12	3/8”	22	0.097	$ 51.00
FFP12	FPP Cartridge complete with Housing	80 LPM	350 BAR	62	14	1/2”	27	0.160	$ 59.00
FFP34	FPP Cartridge complete with Housing	150 LPM	350 BAR	72	16	3/4”	36	0.350	$ 80.00
FFP1	FPP Cartridge complete with Housing	200 LPM	300 BAR	86	20	1”	46	0.785	$ 113.00

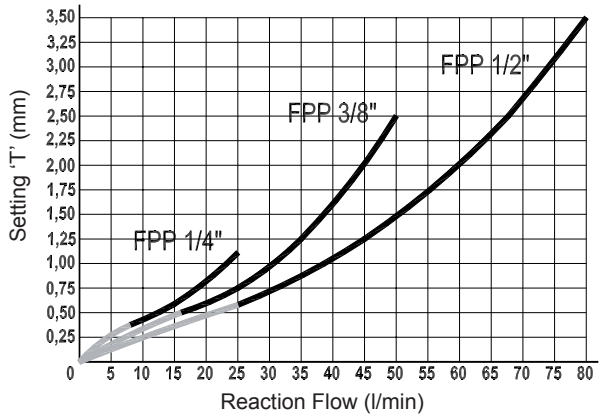


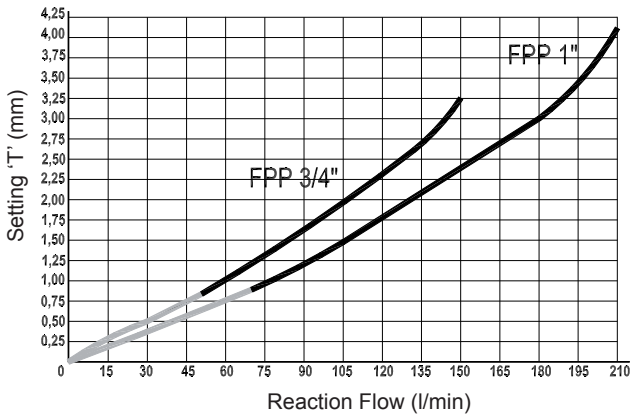




Hose Burst Cartridge Only (WARNING - These valves are not preset for reaction flow)

Stock No.	Description	Max. Flow Rate	Maximum Pressure	A mm	B mm	C BSPP	D mm	E mm	T mm	G mm	H mm	Wt Kg	List Price
FPP14	Hose Burst Cartridge	25 LPM	350 BAR	8.5	2.4	1/4”	9.5	8	see diagram below	5	23	0.007	$ 32.00
FPP38	Hose Burst Cartridge	50 LPM	350 BAR	11	3.5	3/8”	12.5	11		5	23	0.012	$ 35.00
FPP12	Hose Burst Cartridge	80 LPM	350 BAR	13	4.5	1/2”	15	13		6	29	0.025	$ 43.00
FPP34	Hose Burst Cartridge	150 LPM	350 BAR	16	6	3/4”	18.5	18		6	34	0.045	$ 62.00
FPP1	Hose Burst Cartridge	200 LPM	300 BAR	20	7	1”	23	21		7.5	40	0.094	$ 75.00





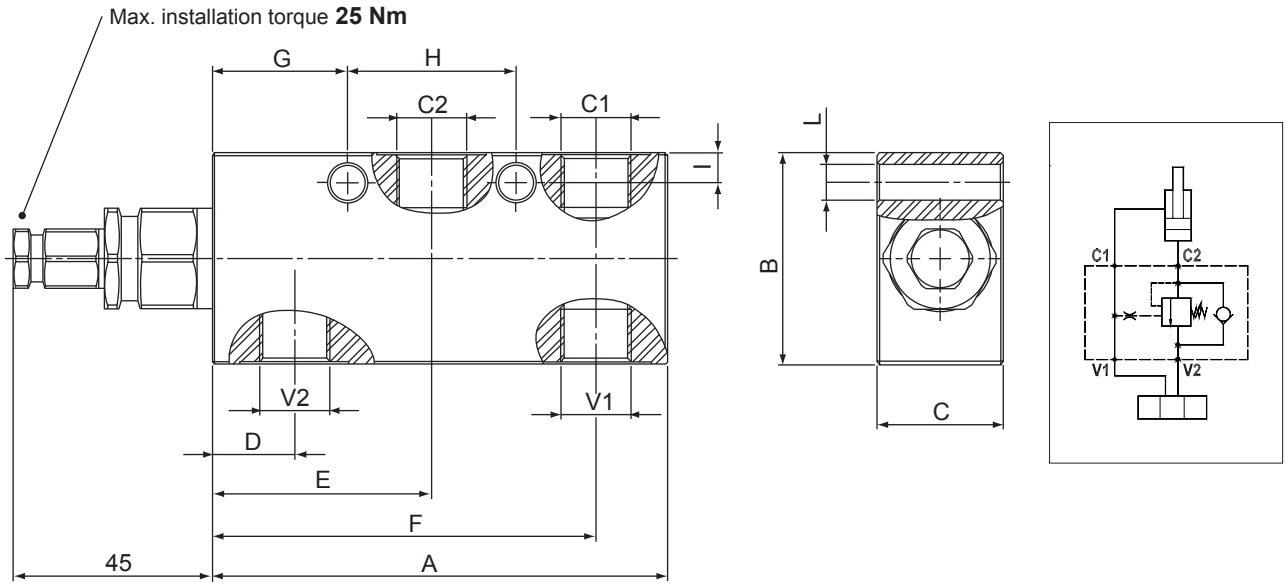
Recommended Flow Reaction (min.-max)

WARNING:
The setting values indicated in this diagram are approximate, to establish a more reliable setting, the user must verify it during the final testing on the installation.

FP0S Single Overcentre Valves

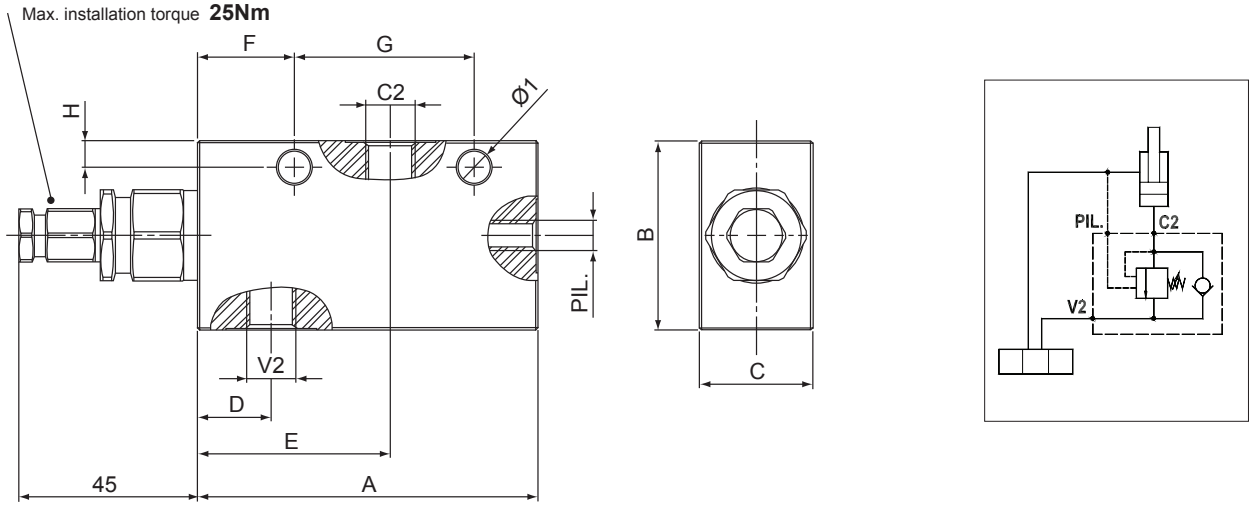
Single Overcentre Valve - Line Mounted and Through Ported

Stock No.	Description	Port Size BSPP	Pilot Ratio	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	Wt Kg	List Price
FP0S14LP20	Single Overcentre Valve	1/4”	4.25:1	108	55	30	19.5	52	91	32	40	8	8.5	1.20	$ 167.00
FP0S38LP20	Single Overcentre Valve	3/8”	4.25:1	108	55	30	19.5	52	91	32	40	8	8.5	1.20	$ 167.00
FP0S12LP20	Single Overcentre Valve	3/8”	4.25:1	108	55	30	19.5	52	91	32	40	8	8.5	1.82	$ 173.00



Single Overcentre Valve - Line Mounted

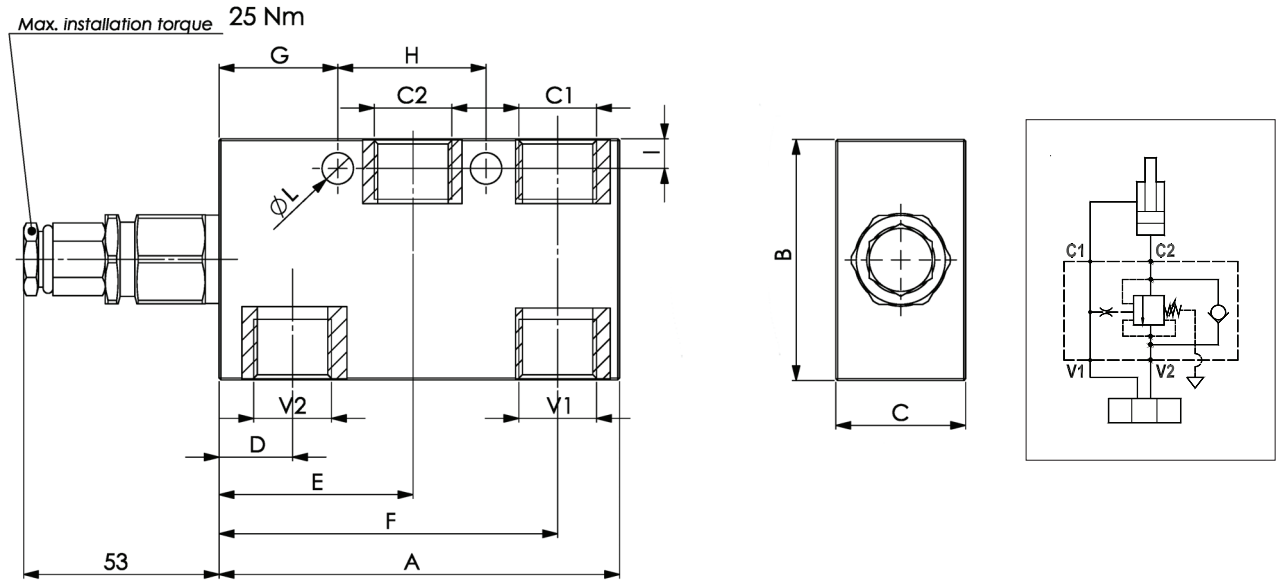
Stock No.	Description	Port Size BSPP	Pilot Ratio	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Wt Kg	List Price
FP0S14L20	Single Overcentre Valve	1/4”	4.25:1	90	55	30	19	51	25.6	47.6	7	8.5	1.02	$ 167.00
FP0S38L20	Single Overcentre Valve	3/8”	4.25:1	90	55	30	19	51	25.6	47.6	7	8.5	1.02	$ 167.00
FP0S12L20	Single Overcentre Valve	1/2”	4.25:1	90	65	35	19	51	25.6	47.6	11	8.5	1.45	$ 173.00



FP0B Single Overcentre Valves

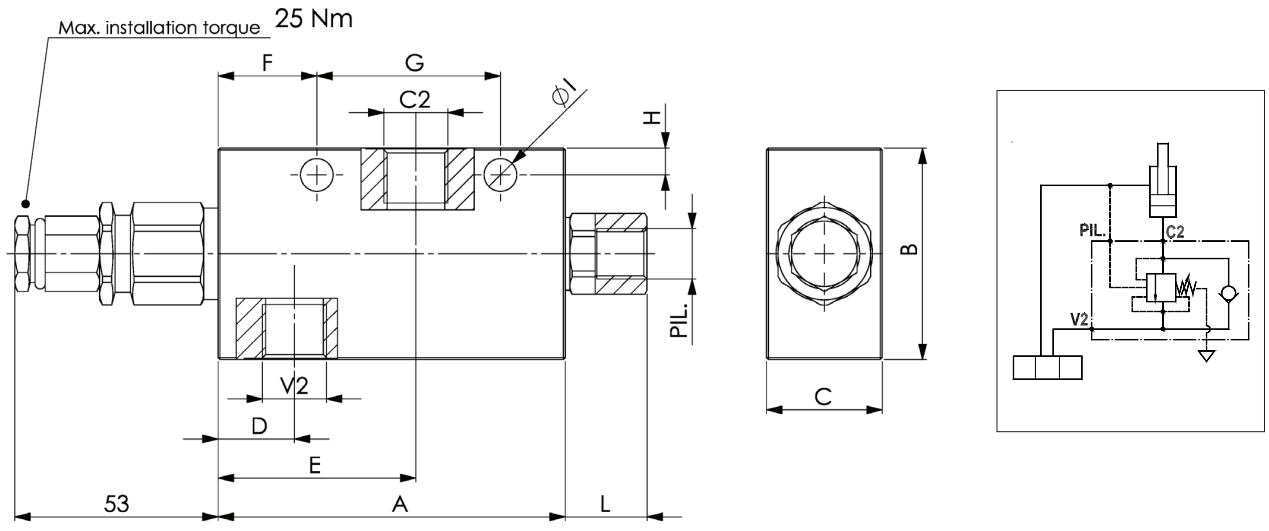
Single Overcentre Valve - Line Mounted and Through Ported - Insensitive to Back Pressure

Stock No.	Description	Port Size BSPP	Pilot Ratio	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	Wt Kg	List Price
FP0BS38LP20	Single Overcentre Valve	3/8”	4.25:1	108	55	30	19.5	52	91	32	40	8	8.5	1.20	$ 176.00
FP0BS12LP20	Single Overcentre Valve	1/2”	4.25:1	108	55	30	19.5	52	91	32	40	8	8.5	1.82	$ 176.00



Single Overcentre Valve - Line Mounted - Insensitive to Back Pressure

Stock No.	Description	Port Size BSPP	Pilot Ratio	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Wt Kg	List Price
FP0BS38L20	Single Overcentre Valve	3/8”	4.25:1	90	55	30	19	51	25.6	47.6	7	8.5	1.02	$ 170.00
FP0BS12L20	Single Overcentre Valve	1/2”	4.25:1	90	65	35	19	51	25.6	47.6	11	8.5	1.45	$ 170.00



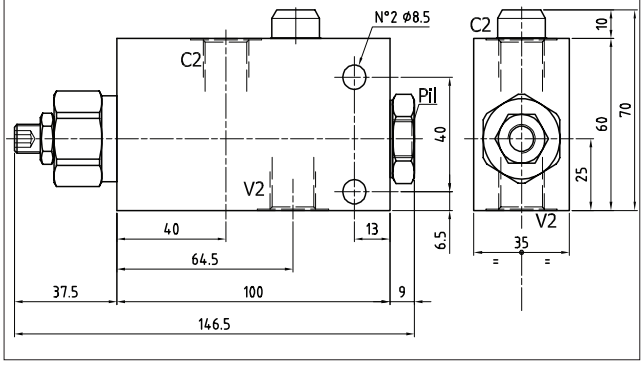
144** Single Overcentre Valves

Single Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
14416113*02000	Single Overcentre	40 LPM	350 BAR	3/8" BSPP	3.6:1	$ 152.00
14416119*02000	Single Overcentre	40 LPM	350 BAR	3/8" BSPP	9.1:1	$ 152.00
14416303*03000	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	3:1	$ 204.00
14416315*03000	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	10.5:1	$ 204.00

144161XYZ000

ORDERING CODE



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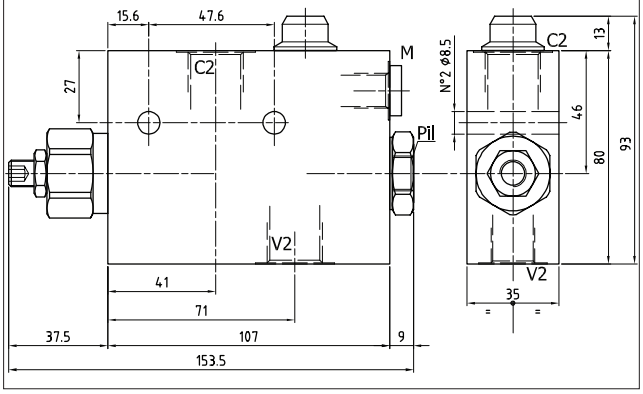
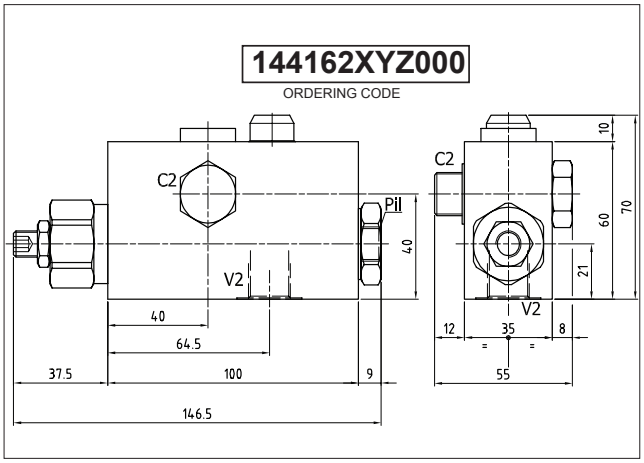


Single Overcentre - Line Mounted and Through Ported - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
14416213*02000	Single Overcentre	40 LPM	350 BAR	3/8" BSPP	3.6:1	$ 225.00
14416219*02000	Single Overcentre	40 LPM	350 BAR	3/8" BSPP	9.1:1	$ 225.00
14416403*03000	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	3:1	$ 225.00
14416415*03000	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	10.5:1	$ 225.00

144162XYZ000

ORDERING CODE



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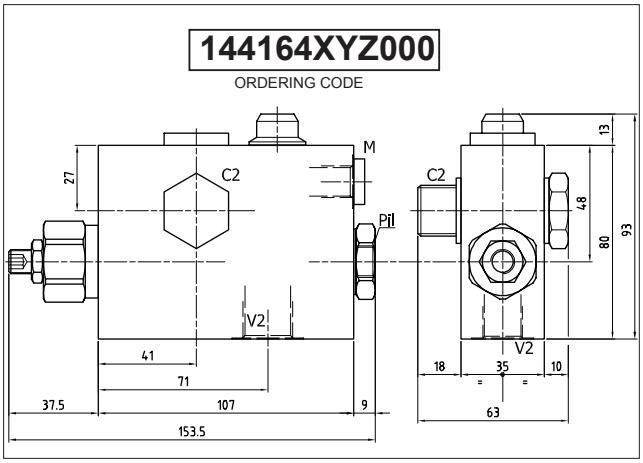
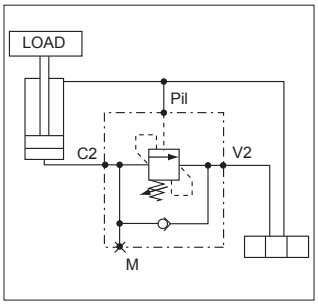
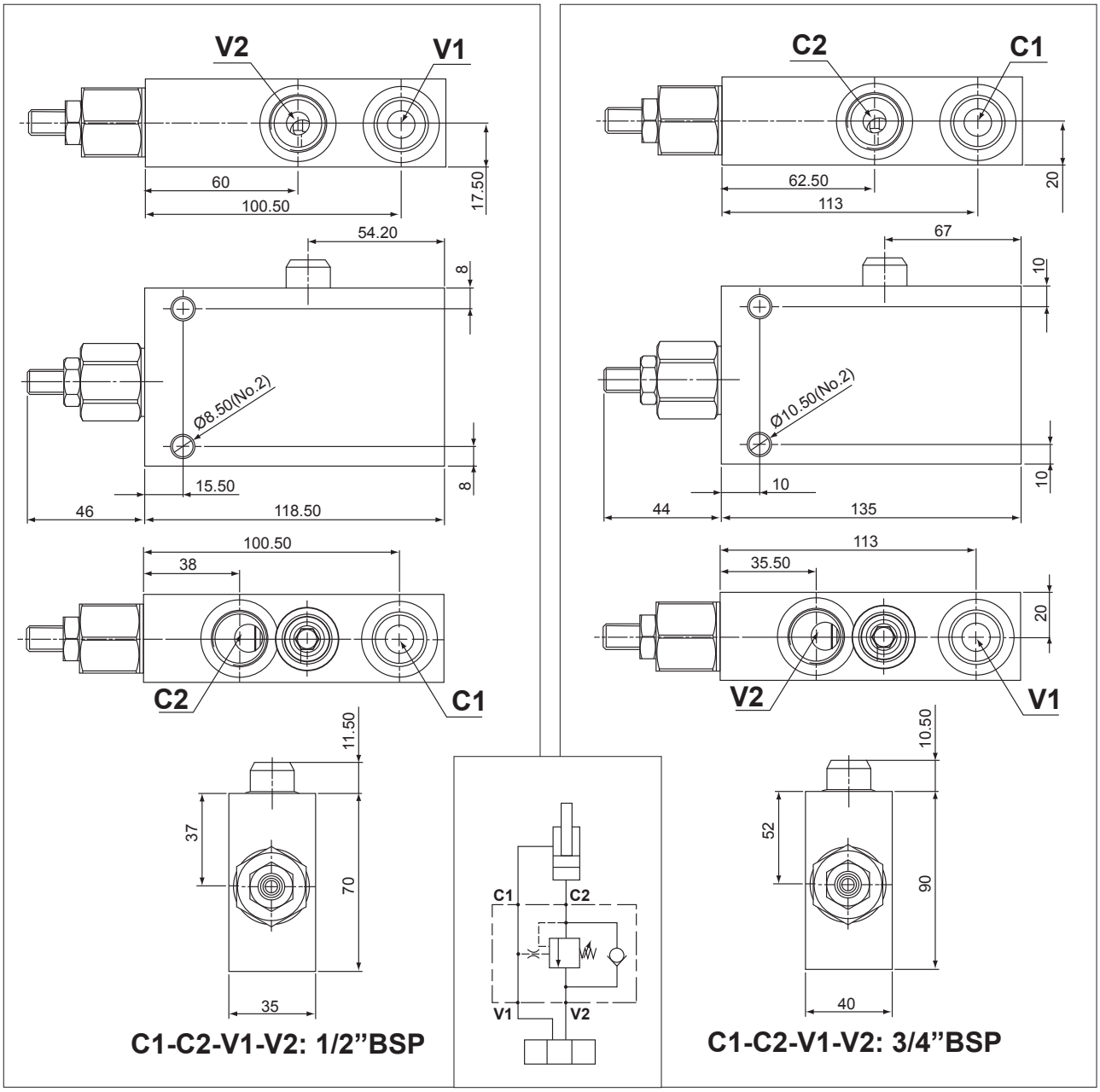




FPOE/S Single Overcentre Valves

Single Overcentre - Line Mounted and Through Ported - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port	Pilot Ratio	List Price
FPOE70S12LPA**	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	3.2:1	$ 169.00
FPOE70S12LPA**B	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	8.2:1	$ 169.00
FPOE120S34LPA**	Single Overcentre	120 LPM	350 BAR	3/4" BSPP	3.2:1	$ 259.00
FPOE120S34LPA**B	Single Overcentre	120 LPM	350 BAR	3/4" BSPP	8.2:1	$ 259.00



C1-C2-V1-V2: 1/2"BSP

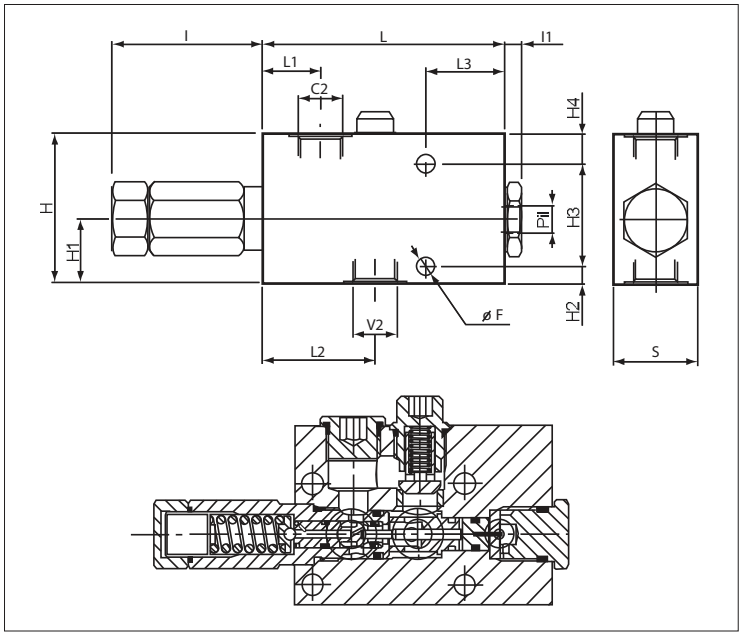
C1-C2-V1-V2: 3/4"BSP

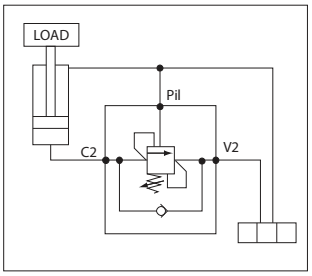
Springs				
Code	Adjustable pressure range bar	Pressure increase bar/ turn (pilot ratio)	Standard setting bar	Colour
20	60 - 210	56 (3.2 : 1 - 8.2 : 1)	200	Green
35	120 - 350	90 (3.2 : 1 - 8.2 : 1)	350	Red

Single Overcentre Valves

Single Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
14417191*03000	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	7.6:1	$ 258.00
14417192*03000	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	3:1	$ 258.00
14417191*04000	Single Overcentre	120 LPM	350 BAR	3/4" BSPP	7.6:1	$ 352.00
14417192*04000	Single Overcentre	120 LPM	350 BAR	3/4" BSPP	3:1	$ 352.00
14417191*05000	Single Overcentre	180 LPM	350 BAR	1" BSPP	8:1	$ 552.00
14417192*05000	Single Overcentre	180 LPM	350 BAR	1" BSPP	2.8:1	$ 552.00



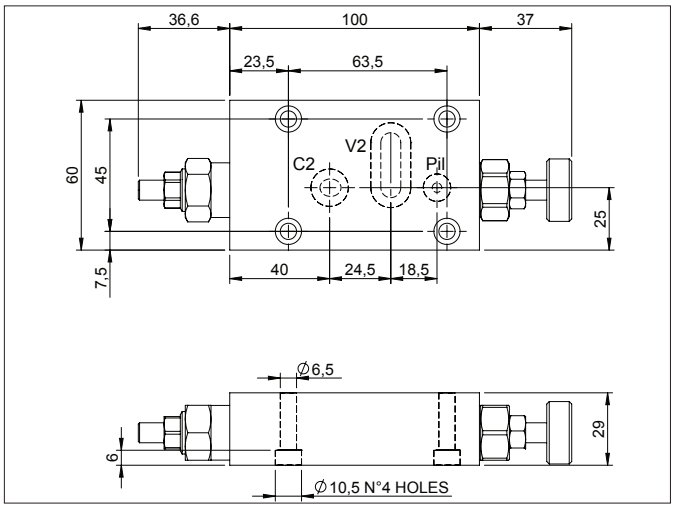


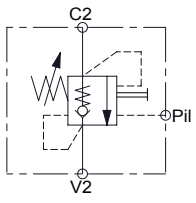
TECHNICAL DATA	
Max. working pressure	350 bar
Flow see performance chart	
Pressure setting: at least 1.3 times the load induced pressure.	

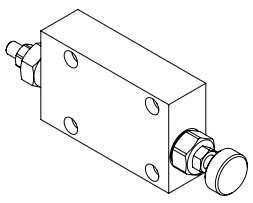
50	40.5	77	35	160	92.5	35	55	10	35	100	10.5		1	3.25
40	42.5	62	29	127.5	71.5	30	50	10	35	90	10.5		3/4	1.755
40	37.5	53.5	27.5	115	71.5	14	48	8	30	70	8.5		1/2	1.39
35	27.5	48.5	27.5	100	61	17	40	8	26.5	65	8.5		3/8	0.98
S	**L3**	**L2**	**L1**	**L**	**I**	**H4**	**H3**	**H2**	**H1**	**H**	**F**		**Y**	Weight kg

Single Overcentre - Flange Mounted with Override - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MB000632	Single Overcentre	40 LPM	350 BAR	Ø7	4:1	$ 230.00



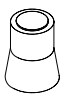




SPECIFICATIONS	
Max. operating pressure:	250 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	0,4 kg

SEALING CAP

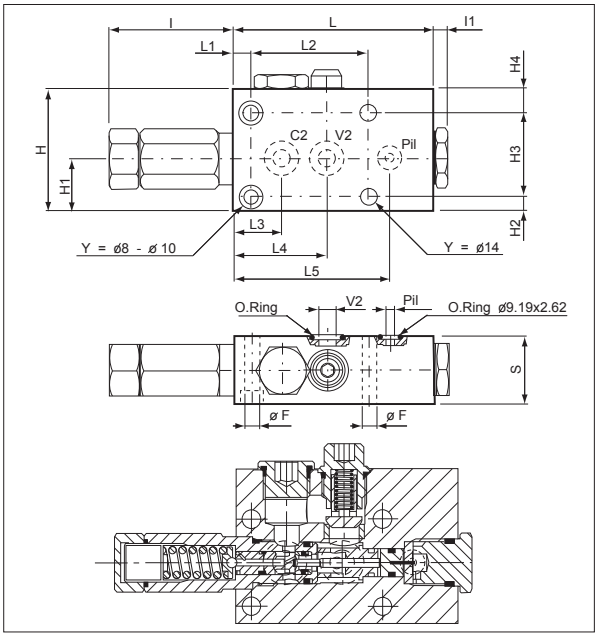
Ordering code:
AT000020

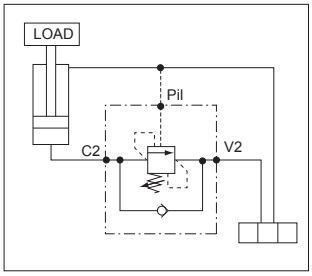


Single Overcentre Valves

Single Overcentre - Flange Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
0541650303**	Single Overcentre	70 LPM	350 BAR	Ø10	7.6:1	$ 340.00
0541651003**	Single Overcentre	70 LPM	350 BAR	Ø10	3.6:1	$ 340.00



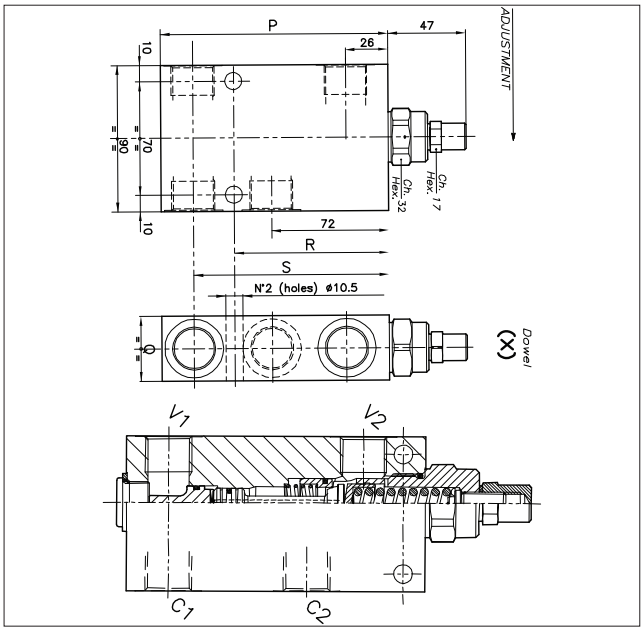


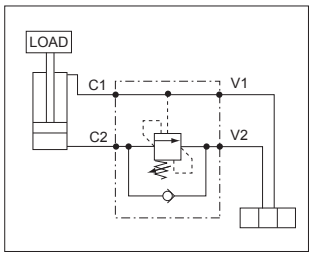
TECHNICAL DATA	
Max. working pressure	350 bar
Flow see performance chart	
Pressure setting: at least 1.3 times the load induced pressure.	

39	101	61	28	75	9	127.5	10	71.5	30	50	10	35	90	10.5	15.64x2.62	Ø14	1.74
39	89.5	53.5	27.5	67.5	10	115	10	71.5	14	48	8	32	70	8.5	15.34x2.62	Ø10	1.38
34	85.5	50	25.5	63.5	9	100	11	61	16	40	8	26.5	64	8.5	15.34x2.62	Ø8	0.97
S	**L5**	**L4**	**L3**	**L2**	**L1**	**L**	**I1**	**I**	**H4**	**H3**	**H2**	**H1**	**H**	**F**	**O ring**	**Y**	Weight kg

Single Overcentre - Line Mounted and Through Ported - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
001266GX0	Single Overcentre	160 LPM	350 BAR	1" BSPP	6.2:1	$ 325.00
001267GX0	Single Overcentre	160 LPM	350 BAR	1" BSPP	6.2:1	$ 300.00



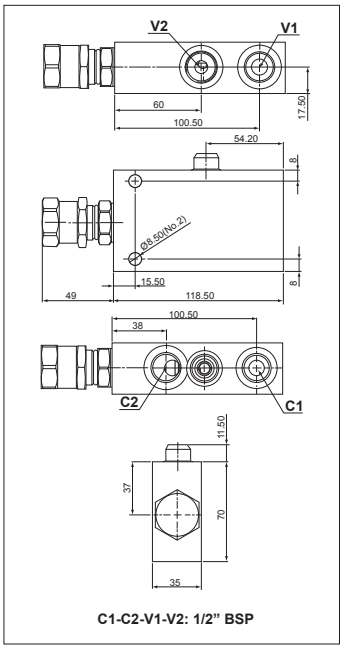


Dimensions								
Setting Range	P	Q	R	S	Port Size V2-C2, V1-C1	Rated Size DN	Max Flow LPM-GPM	Body
219	140	40	95	120	3/4" BSPP	12	120-31	Alum
265	140	40	95	120	3/4" BSPP	12	120-31	Steel
267	165	50	107	142	1" BSPP	14	160-42	Alum
266	165	50	107	142	1" BSPP	14	160-42	Steel

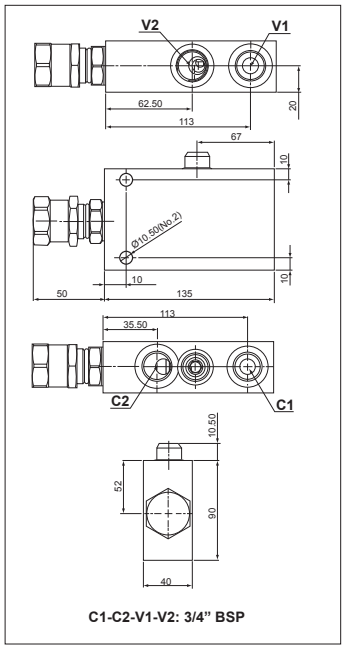
FPOEB/S Single Overcentre Valves

Single Overcentre - Line Mounted and Through Ported - Aluminium - Insensitive to Back Pressure

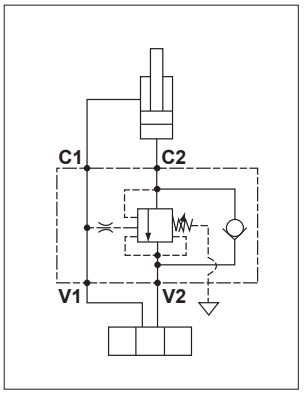
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
FPOEB70S12LPA**	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	3.2:1	$ 199.00
FPOEB70S12LPA**B	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	8.2:1	$ 199.00
FPOEB120S34LPA**	Single Overcentre	120 LPM	350 BAR	3/4" BSPP	3.2:1	$ 299.00
FPOEB120S34LPA**B	Single Overcentre	120 LPM	350 BAR	3/4" BSPP	8.2:1	$ 299.00



C1-C2-V1-V2: 1/2" BSP



C1-C2-V1-V2: 3/4" BSP

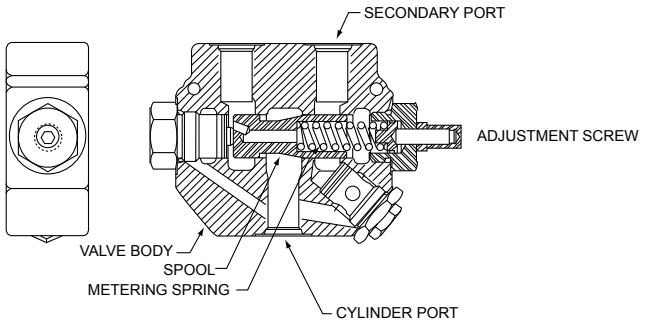


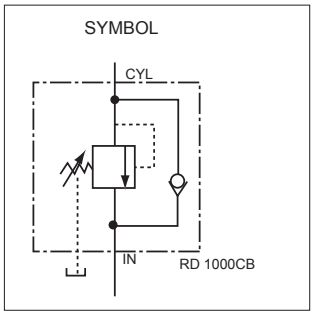
Springs				
Code	Adjustable pressure range bar	Pressure increase bar/turn (pilot ratio)	Standard setting bar	Colour
20	60 - 210	56 (3.2 : 1 - 8.2 : 1)	200	Green
35	120 - 350	90 (3.2 : 1 - 8.2 : 1)	350	Red

RD1000 Counter Balance Valves

Counter Balance Valve

Stock No.	Description	Pressure Range	Port Size	Max. Flow	Max. Pressure	List Price
RD1012CBM	Internally Piloted Counter Balance Valve with Internal Drain	350-1700 PSI	1-1/16" UNO	30 GPM	3000 PSI	$ 392.00





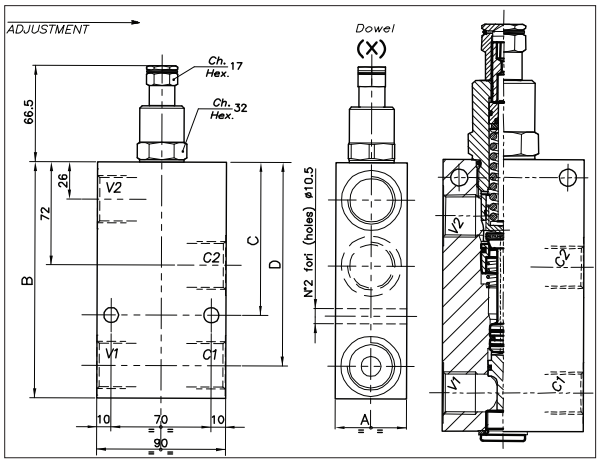
The valve Model RD1012CBM is an internally piloted, internally drained adjustable counter balance valve. The counter balance pressure is adjustable within the ranges given in the standard and option features. When properly adjusted, this valve will provide a controlled amount of back pressure to prevent the uncontrolled descent of a cylinder. To operate properly the counter balance pressure is set higher than the load pressure.

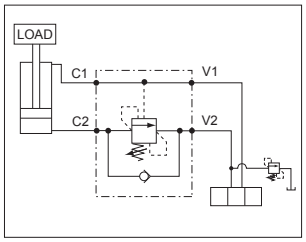
In operation, the valve spool is held open by the pressure applied to the cylinder port allowing oil to flow from the cylinder port to the valve port. An in-built check valve allows oil to flow from the valve port to the cylinder port. This valve is a spool type counter balance and will provide smooth operation but should not be used in applications that require a low leakage.

Single Overcentre Valves

Single Overcentre - Line Mounted and Through Ported - Aluminium - Insensitive to Back Pressure

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
001468GX0	Single Overcentre	120 LPM	350 BAR	3/4" BSPP	3.2:1	$ 320.00
001469GX0	Single Overcentre	160 LPM	350 BAR	1" BSPP	3.2:1	$ 350.00





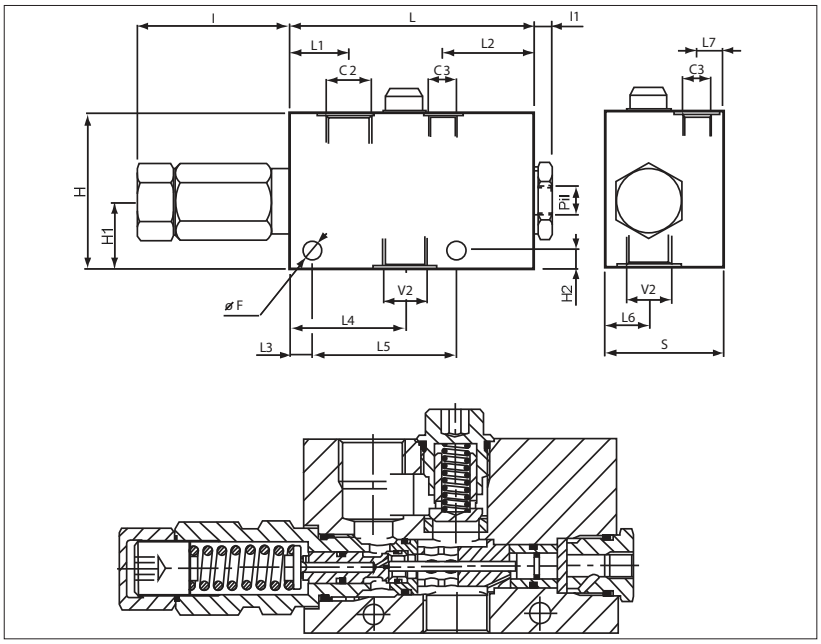
TECHNICAL DATA	
Max. working pressure	350 bar
Flow see performance chart	
Pressure setting: at least 1.3 times the load induced pressure.	

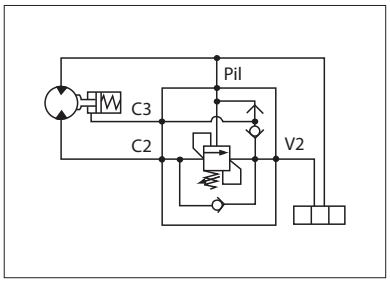
Dimensions

Setting Range	A	B	C	D	Port Size V2-C2, V1-C1	Rated Size DN	Max Flow LPM-GPM
468	40	140	95	120	3/4" BSPP	12	120-31
469	50	165	107	142	1" BSPP	14	160-42

Single Overcentre - Pilot Assisted, Series NA - Aluminium - Overcentre for Winches

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
14417291*03000	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	7.6:1	$ 308.00
14417292*03000	Single Overcentre	70 LPM	350 BAR	1/2" BSPP	3:1	$ 308.00
14417291*04000	Single Overcentre	100 LPM	350 BAR	3/4" BSPP	7.6:1	$ 393.00
14417292*04000	Single Overcentre	100 LPM	350 BAR	3/4" BSPP	3:1	$ 393.00
14417291*05000	Single Overcentre	200 LPM	350 BAR	1" BSPP	8:1	$ 616.00
14417292*05000	Single Overcentre	200 LPM	350 BAR	1" BSPP	2.8:1	$ 616.00





TECHNICAL DATA	
Max. working pressure	350 bar
Flow see performance chart	
Pressure setting: at least 1.3 times the load induced pressure.	

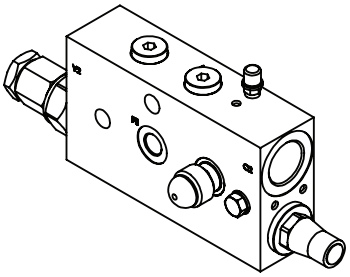
S	L7	L6	L5	L4	L3	L2	L1	L	I1	I	H2	H1	H	F		Y	Weight kg
70	14	30	85	77	35	44	35	160	10	92.5	10	35	100	10.5		1	4.00
60	15	20	75	62.5	10	48.5	29	127.5	10	71.5	10	35	90	10.5		3/4	2.35
55	12	20	67.5	53.5	10	43.5	27.5	61	10	71.5	8	30	70	8.5		1/2	1.67

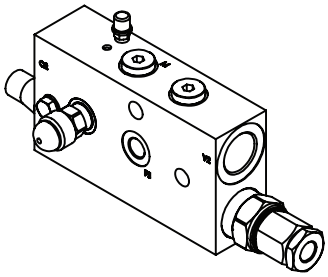
Excavator Check Valves

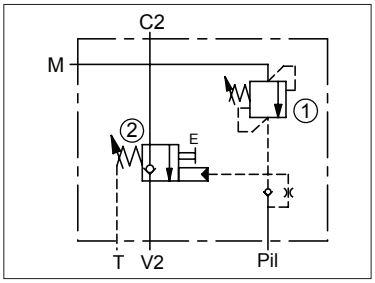
Excavator Check & Metering Valve Pilot Operated - Steel

Inline Version - BSPP Threaded

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size		List Price
				V2	C2	
ML000146	MLST040LH	40 LPM	500 BAR	3/8” BSPP	3/8” BSPP	$ 536.00
ML000144	MLST040RH	40 LPM	500 BAR	3/8” BSPP	3/8” BSPP	$ 536.00
ML000147	MLST100RH	90 LPM	420 BAR	1/2” BSPP	1/2” BSPP	$ 550.00
ML000149	MLST100LH	90 LPM	420 BAR	1/2” BSPP	1/2” BSPP	$ 550.00
ML000011	MLST150RH	150 LPM	420 BAR	3/4” BSPP	3/4” BSPP	$ 550.00
ML000010	MLST150LH	150 LPM	420 BAR	3/4” BSPP	3/4” BSPP	$ 550.00
ML000029	MLST150RH	150 LPM	420 BAR	1-1/16” UN	1-1/16” UN	$ 550.00
ML000404	MLST300LH	300 LPM	420 BAR	1.00” BSPP	1.00” BSPP	$ 1200.00
ML000405	MLST300RH	300 LPM	420 BAR	1.00” BSPP	1.00” BSPP	$ 1200.00

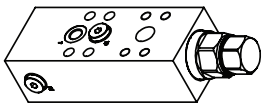


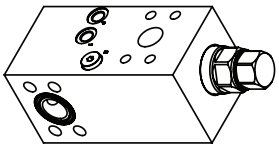


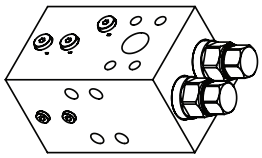


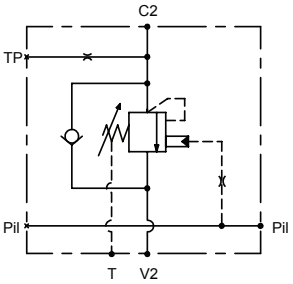
Block Version - Code 61 or 62 Flangeable

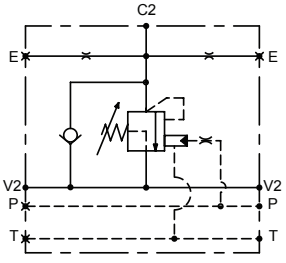
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size		List Price
				V2	C2	
MB000162	MBST250ABNR	250 LPM	350 BAR	3/4” SAE C61	3/4” SAE C61	$ 803.00
MB000161	MBST250ABNR	300 LPM	350 BAR	1” SAE C62	1” SAE C62	$ 1089.00
MB000160	MBST500ABNR	500 LPM	420 BAR	1-1/4” SAE C62	1-1/4” SAE C62	$ 1908.00

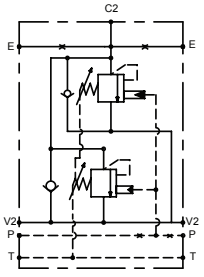












These valves are controlled by remote pilot pressure and are designed for direct mounting on boom cylinders on hydraulic excavators. They are also used in load holding and lowering control systems designed to comply with ISO Standard 8643 (hose burst protection).

Note: The tank port must be connected to a ‘low pressure tank line’ (to the joystick tank line or to the tank directly).

C61 = SAE 3000 **C62 - SAE 6000**

Excavator Check Valves

Excavator Check & Metering Valve Pilot Operated - Steel

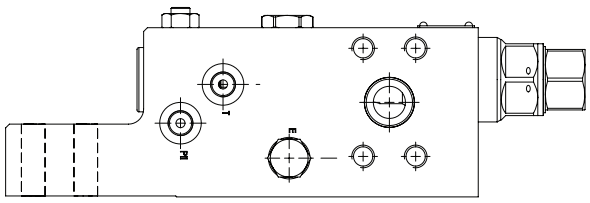
L Version - Code 61 or 62 Flangeable

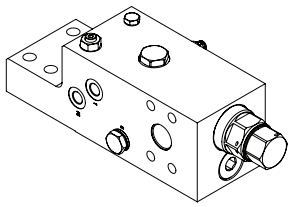
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size		List Price
				V2	C2	
ML000130	MLTT100	100 LPM	420 BAR	1/2" BSPP	1/2" SAE C62	$ 690.00
ML000082	MLST150	150 LPM	420 BAR	1/2" SAE C62	1/2" SAE C62	$ 835.00
ML000091	MLST200	250 LPM	420 BAR	3/4" SAE C62	3/4" SAE C61 & C62	$ 1200.00
ML000106	MLLT300	350 LPM	420 BAR	3/4" SAE C62	3/4" SAE C62	$ 1220.00
ML000081	MLST300	400 LPM	420 BAR	1" SAE C62	1" SAE C61 & C62	$ 1300.00
ML000077	MLST300	500 LPM	420 BAR	1-1/4" SAE C62	1-1/4" SAE C62	$ 1550.00
ML000098	MLLT300	700 LPM	420 BAR	1-1/2" SAE C62	1-1/2" SAE C62	$ 4200.00

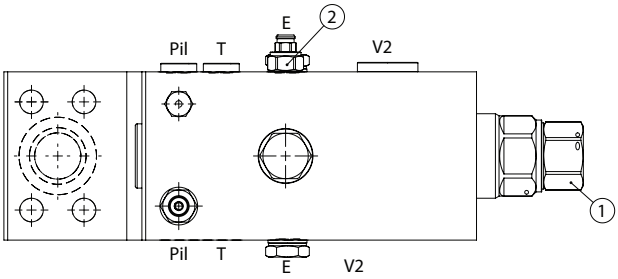
These valves are controlled by remote pilot pressure and are designed for direct mounting on boom cylinders on hydraulic excavators. They are also used in load holding and lowering control systems designed to comply with ISO Standard 8643 (hose burst protection).

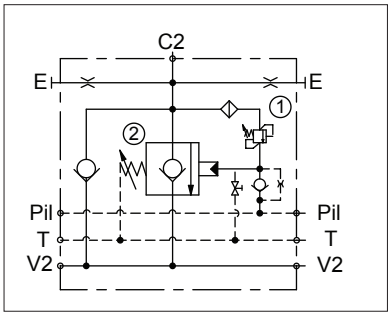
Note: The tank port must be connected to a 'low pressure tank line' (to the joystick tank line or to the tank directly).

C61 = SAE 3000 **C62 - SAE 6000**





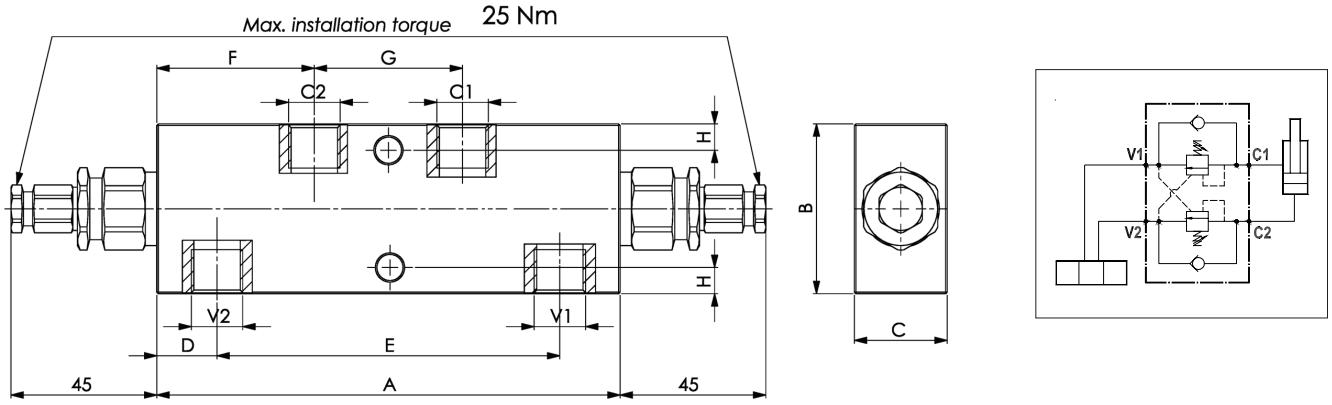




FP0D Double Overcentre Valves

Double Overcentre Valve - Line Mounted - Steel

Stock No.	Description	Port Size BSPP	Pilot Ratio	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Wt Kg	List Price
FP0D38LP20	Double Overcentre Valve	3/8”	4.25:1	150	55	30	19	112	51	48	8.5	8.5	1.85	$ 300.00
FP0D12LP20	Double Overcentre Valve	1/2”	4.25:1	150	65	35	19	112	51	48	11	8.5	2.30	$ 305.00

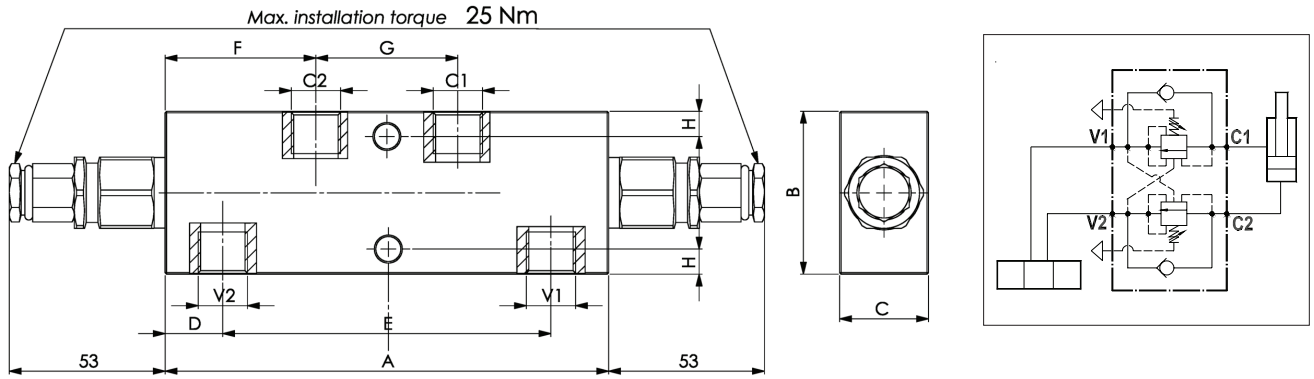


Springs				
Code	Adjustable pressure range bar	Pressure increase bar/ turn (pilot ratio)	Standard setting bar	Colour
20	60 - 220	70 (4.25:1) - 50 (8:1)	170	Green
35	80 - 350	120 (4.25:1) - 85 (8:1)	280	Red

FP0B/D Double Overcentre Valves

Double Overcentre Valve - Line Mounted - Steel - Insensitive to Back Pressure

Stock No.	Description	Port Size BSPP	Pilot Ratio	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Wt Kg	List Price
FP0BD38L20	Double Overcentre Valve	3/8”	4.25:1	150	55	30	19	112	51	48	8.5	8.5	1.85	$ 306.00
FP0BD12L20	Double Overcentre Valve	1/2”	4.25:1	150	65	35	19	112	51	48	11	8.5	2.30	$ 311.00



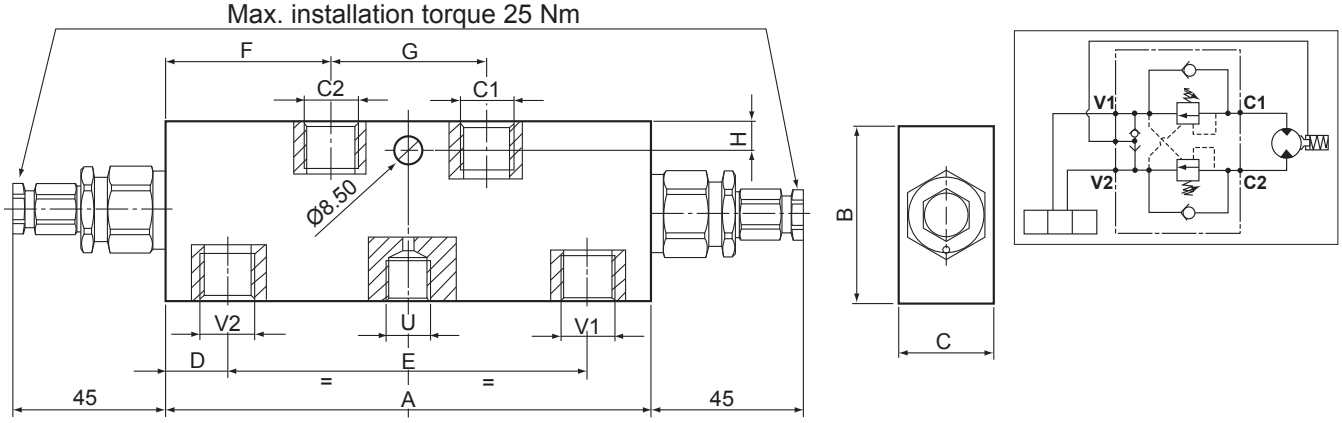
Springs				
Code	Adjustable pressure range bar	Pressure increase bar/ turn (pilot ratio)	Standard setting bar	Colour
20	60 - 220	70 (4.25:1) - 50 (8:1)	170	Green
35	80 - 350	120 (4.25:1) - 85 (8:1)	280	Red

FPODLU Double Overcentre Valves

Double Overcentre Valve - Line Mounted - With Brake Release Port - Steel

Stock No.	Port Size BSPP		Pilot Ratio	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Wt Kg	List Price
	V1-C1 V2-C2	U												
FPO50D12LU**	1/2"	1/4"	4.25:1	150	65	35	19	112	51	48	11	8.5	2.30	$ 385.00
FPO50D12LU**B	1/2"	1/4"	8:1	150	65	35	19	112	51	48	11	8.5	2.30	$ 385.00

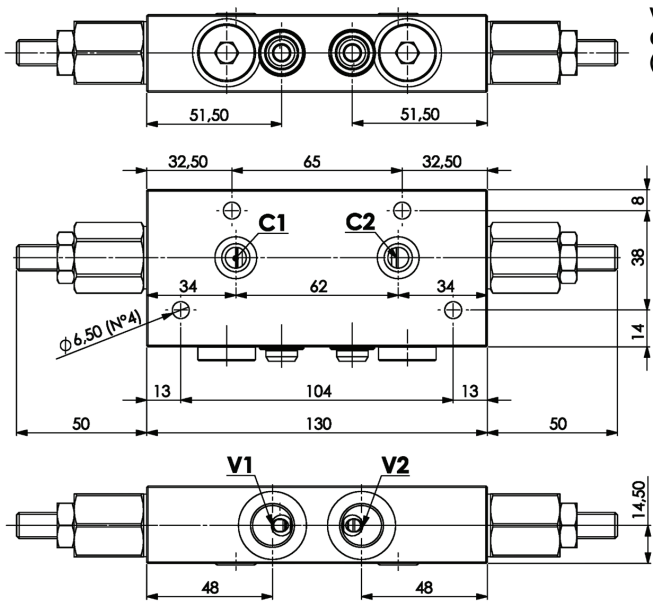
Max. installation torque 25 Nm



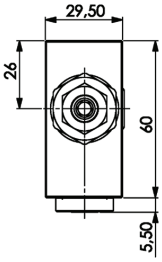
Springs				
Code	Adjustable pressure range bar	Pressure increase bar/ turn (pilot ratio)	Standard setting bar	Colour
20	60 - 220	70 (4.25:1) - 50 (8:1)	170	Green
35	80 - 350	120 (4.25:1) - 85 (8:1)	280	Red

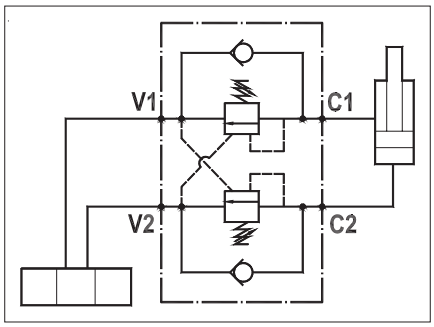
Double Overcentre - Flange Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port	Pilot Ratio	List Price
FPOE40D2FA**	Double Overcentre	40 LPM	350 BAR	Ø8	2.9:1	$ 274.00
FPOE40D2FA**B	Double Overcentre	40 LPM	350 BAR	Ø8	6.6:1	$ 274.00



V1/V2: 3/8"BSPP
C1/C2: Ø8
(O-RING 2.62x10.78)



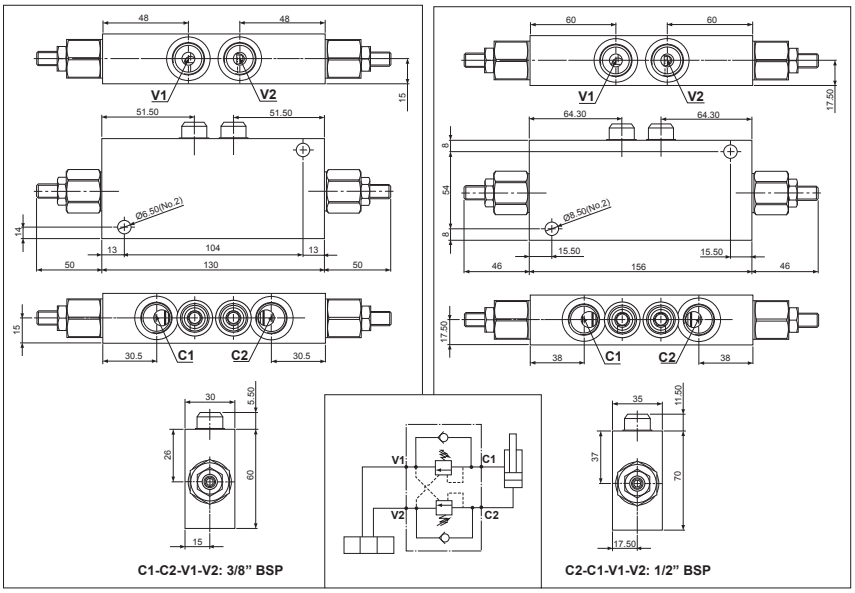


Springs				
Code	Pilot Ratio	Adjustable pressure range bar	Pressure increase bar/ turn	Standard setting bar
20	1 : 2.9	60 - 210	51	200
	1 : 6.6	60 - 210	51	200
35	1 : 2.9	120 - 350	88	350
	1 : 6.6	120 - 350	88	350

FPOE/D Double Overcentre Valves

Double Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port	Pilot Ratio	List Price
FPOE40D38LA**	Double Overcentre	40 LPM	350 BAR	3/8" BSPP	2.9:1	$ 261.00
FPOE40D38LA**B	Double Overcentre	40 LPM	350 BAR	3/8" BSPP	6.6:1	$ 261.00
FPOE70D12LA**	Double Overcentre	70 LPM	350 BAR	1/2" BSPP	3.2:1	$ 279.00
FPOE70D12LA**B	Double Overcentre	70 LPM	350 BAR	1/2" BSPP	8.2:1	$ 279.00



C1-C2-V1-V2: 3/8" BSP

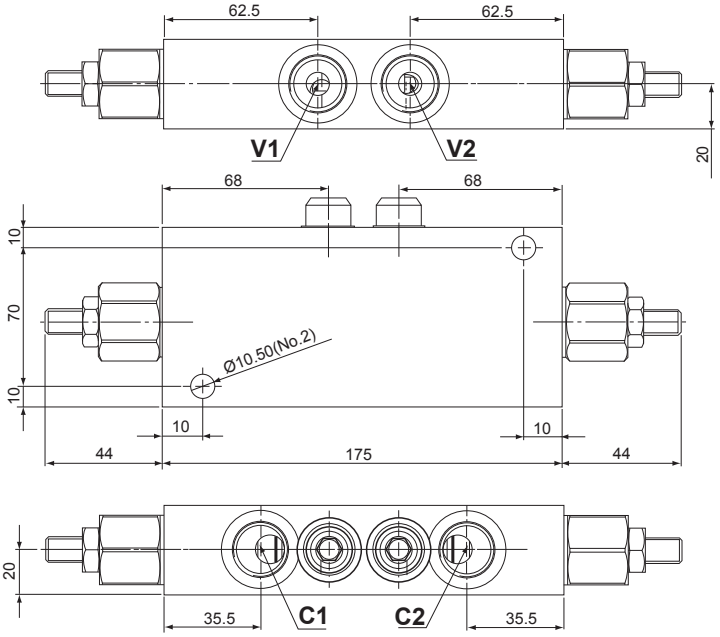
C2-C1-V1-V2: 1/2" BSP

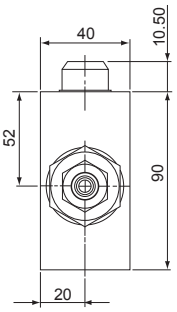
Springs (3/8" BSP)				
Code	Adjustable pressure range bar	Pressure increase bar/turn (pilot ratio)	Standard setting bar	Colour
20	60 - 210	51 (2.9 : 1 - 6.6 : 1)	200	Green
35	120 - 350	88 (2.9 : 1 - 6.6 : 1)	350	Red

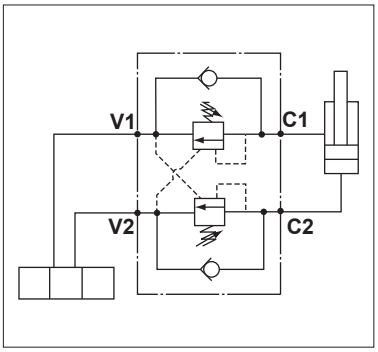
Springs (1/2" BSP)				
Code	Adjustable pressure range bar	Pressure increase bar/turn (pilot ratio)	Standard setting bar	Colour
20	60 - 210	56 (3.2 : 1 - 8.2 : 1)	200	Green
35	120 - 350	90 (3.2 : 1 - 8.2 : 1)	350	Red

Double Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port	Pilot Ratio	List Price
FPOE120D34LA**	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	3.2:1	$ 447.00
FPOE120D34LA**B	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	8.2:1	$ 447.00







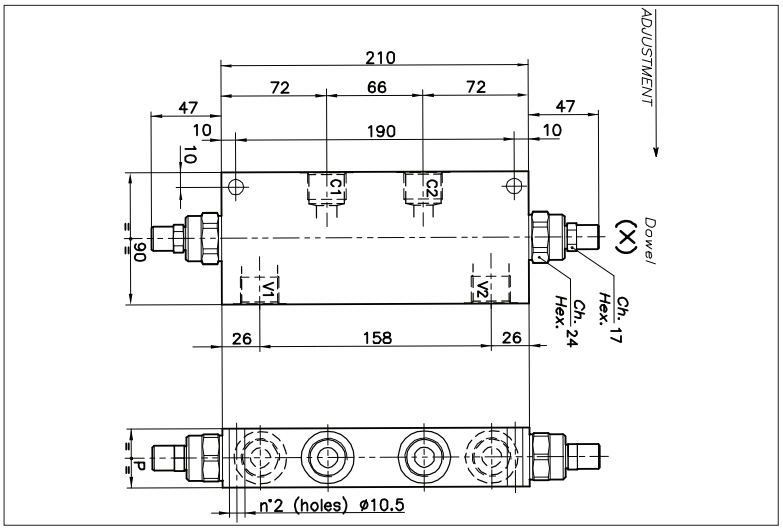
C1-C2-V1-V2: 3/4" BSP

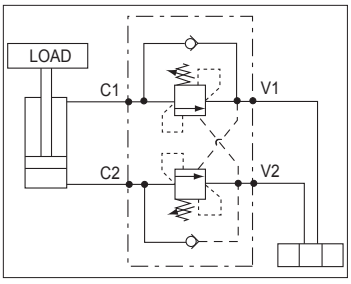
Springs (1/2" BSP)				
Code	Adjustable pressure range bar	Pressure increase bar/turn (pilot ratio)	Standard setting bar	Colour
20	60 - 210	56 (3.2 : 1 - 8.2 : 1)	200	Green
35	120 - 350	90 (3.2 : 1 - 8.2 : 1)	350	Red

Double Overcentre Valves

Double Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
001453GX0	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	4.1:1	$ 447.00
001454GX0	Double Overcentre	160 LPM	350 BAR	1" BSPP	4.1:1	$ 500.00

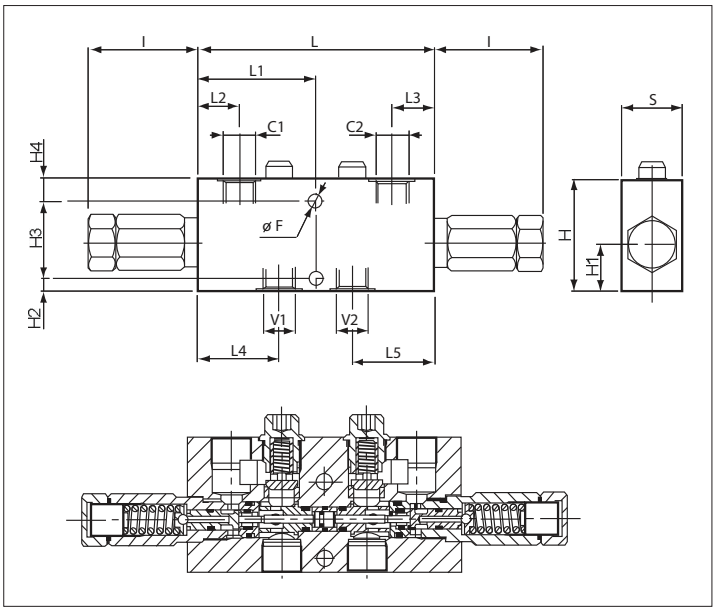


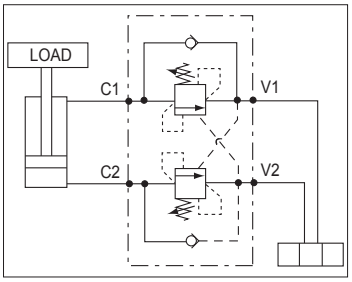


Dimensions				
Setting Range	P	Port Size V2-C2, V1-C1	Rated Size DN	Max Flow LPM-GPM
453	40	3/4" BSPP	12	120-31
454	50	1" BSPP	14	160-42

Double Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
1441911702000	Double Overcentre	40 LPM	350 BAR	3/8" BSPP	7.6:1	$ 369.00
1441919202000	Double Overcentre	40 LPM	350 BAR	3/8" BSPP	3.6:1	$ 369.00
1441911703000	Double Overcentre	70 LPM	350 BAR	1/2" BSPP	7.6:1	$ 448.00
1441919203000	Double Overcentre	70 LPM	350 BAR	1/2" BSPP	3:1	$ 448.00
1441911704000	Double Overcentre	100 LPM	350 BAR	3/4" BSPP	7.6:1	$ 626.00
1441919204000	Double Overcentre	100 LPM	350 BAR	3/4" BSPP	3:1	$ 626.00





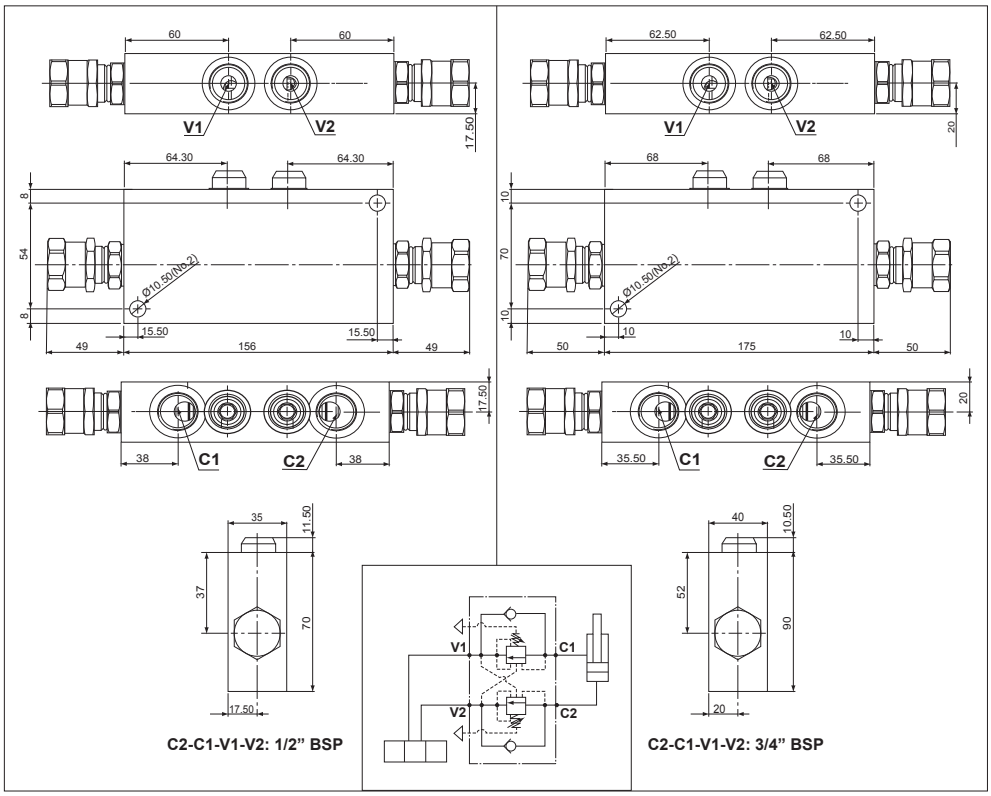
TECHNICAL DATA	
Max. working pressure	350 bar
Flow see performance chart	
Pressure setting: at least 1.3 times the load induced pressure.	

40	62	62	29	29	90	180	69	30	50	10	35	90	10.5		3/4	2.60
40	53.5	53.5	27.5	27.5	77.5	155	71.5	14	48	8	30	70	8.5		1/2	2.10
35	48.5	48.5	25.5	25.5	77.5	145	61.5	17	40	8	26.5	65	8.5		3/8	1.45
S	**L5**	**L4**	**L3**	**L2**	**L1**	**L**	**I**	**H4**	**H3**	**H2**	**H1**	**H**	**F**		**Y**	Weight kg

FPOEB/D Double Overcentre Valves

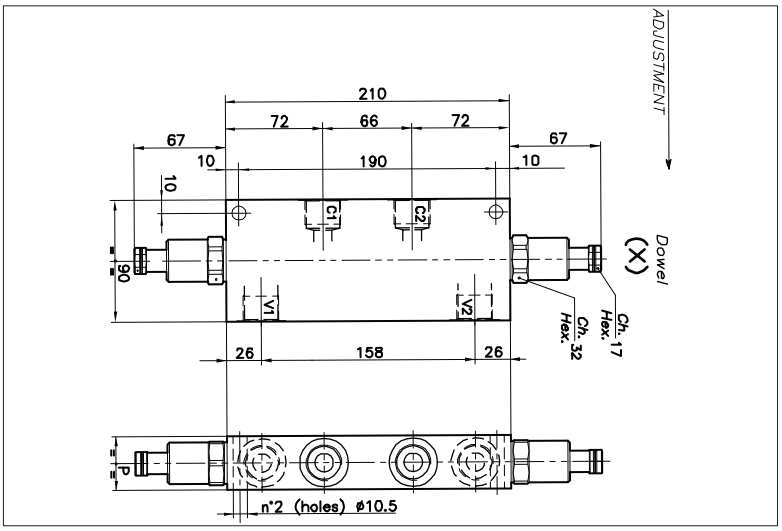
Double Overcentre - Line Mounted - Aluminium - Insensitive to Back Pressure

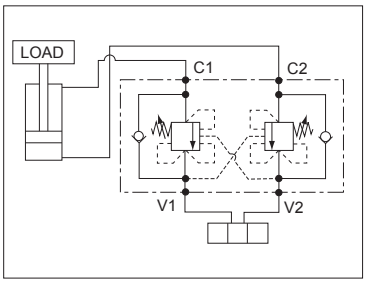
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
FPOEB70D12LA**	Double Overcentre	70 LPM	350 BAR	1/2" BSPP	3.2:1	$ 347.00
FPOEB70D12LA**B	Double Overcentre	70 LPM	350 BAR	1/2" BSPP	8.2:1	$ 347.00
FPOEB120D34LA**	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	3.2:1	$ 527.00
FPOEB120D34LA**B	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	8.2:1	$ 527.00



Double Overcentre - Line Mounted - Aluminium - Insensitive to Back Pressure

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
001463GX0	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	4.1:1	$ 527.00
001464GX0	Double Overcentre	160 LPM	350 BAR	1" BSPP	4.1:1	$ 550.00



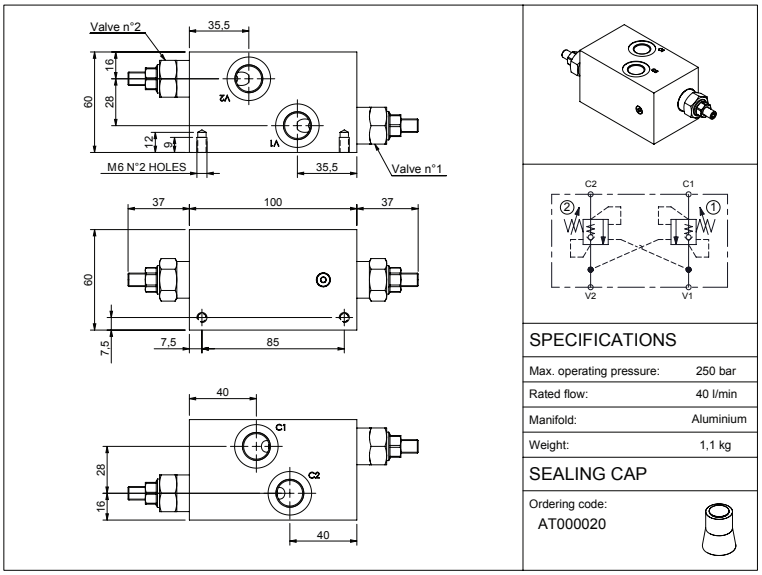


Dimensions				
Setting Range	P	Port Size V2-C2, V1-C1	Rated Size DN	Max Flow LPM-GPM
463	40	3/4" BSPP	12	120-31
464	50	1" BSPP	14	180-47

Double Overcentre Valves

Double Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MB000651	Double Overcentre	40 LPM	250 BAR	3/8" BSPP	4:1	$ 296.00



SPECIFICATIONS

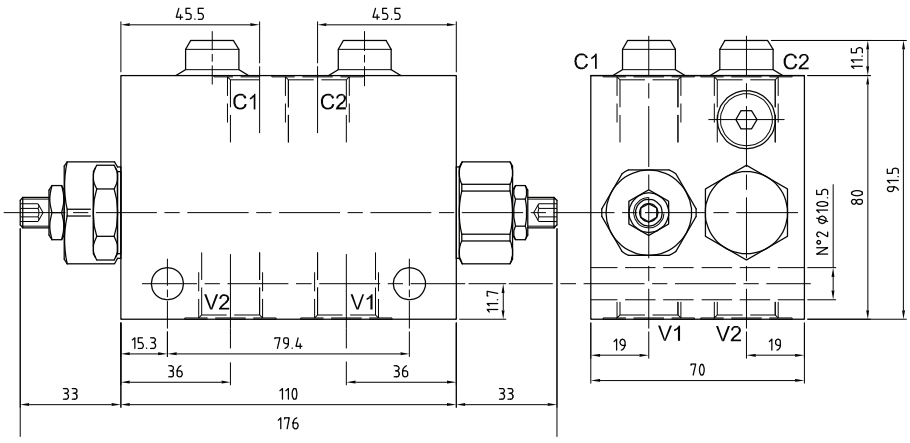
Max. operating pressure:	250 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	1,1 kg

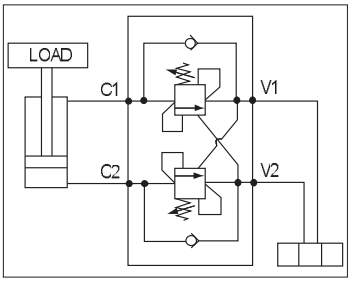
SEALING CAP

Ordering code: AT000020

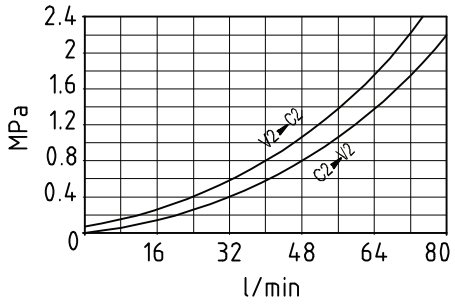
Double Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
14418103*03000	Double Overcentre	70 LPM	350 BAR	1/2" BSPP	9.1:1	$ 390.00
14418115*03000	Double Overcentre	70 LPM	350 BAR	1/2" BSPP	3.6:1	$ 390.00





TECHNICAL DATA	
Max. working pressure	350 bar
Flow see performance chart	
Pressure setting: at least 1.3 times the load induced pressure.	



X	PILOT RATIO
0 3	4.2 : 1
15	3.6 : 1

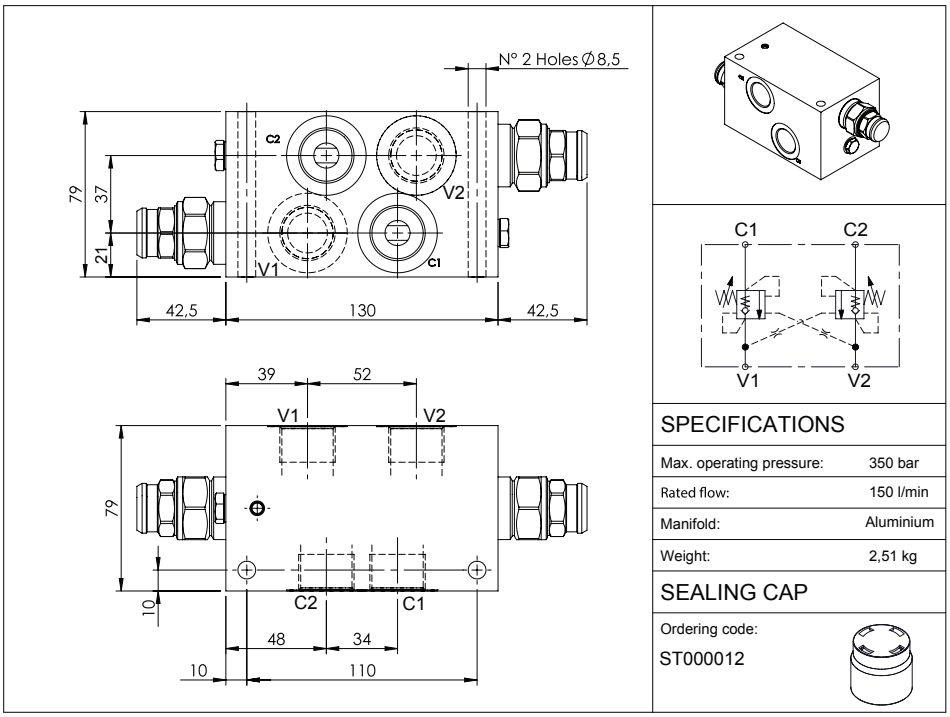
Z	PORT SIZE V1-V2-C1-C2
03	G 1/2

Y	SPRINGS				
	Adj. press. range bar	Press. increase bar / turn	Std. setting bar (Q=5 l/min)	Ordering code	Colour
20	60-210	54	200		
35	100-350	95	300		

Double Overcentre Valves

Double Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MB000210	Double Overcentre	150 LPM	350 BAR	3/4" BSPP	4:1	$ 500.00



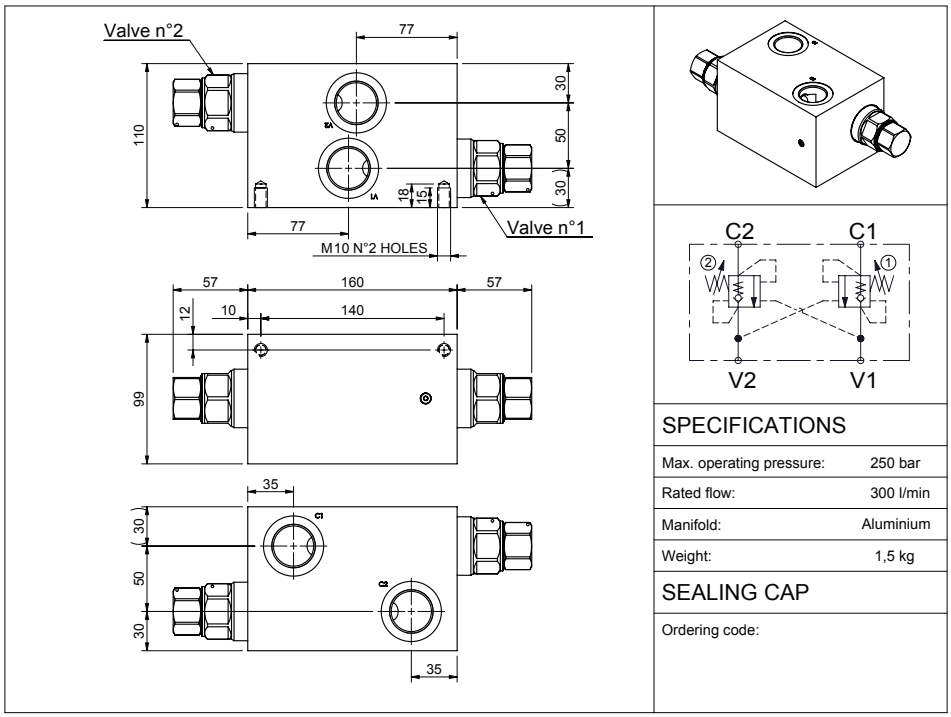
SPECIFICATIONS	
Max. operating pressure:	350 bar
Rated flow:	150 l/min
Manifold:	Aluminium
Weight:	2,51 kg

SEALING CAP

Ordering code:
ST000012

Double Overcentre - Line Mounted - Aluminium

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MB000638	Double Overcentre	300 LPM	250 BAR	1" BSPP	4:1	$ 1063.00



SPECIFICATIONS	
Max. operating pressure:	250 bar
Rated flow:	300 l/min
Manifold:	Aluminium
Weight:	1,5 kg

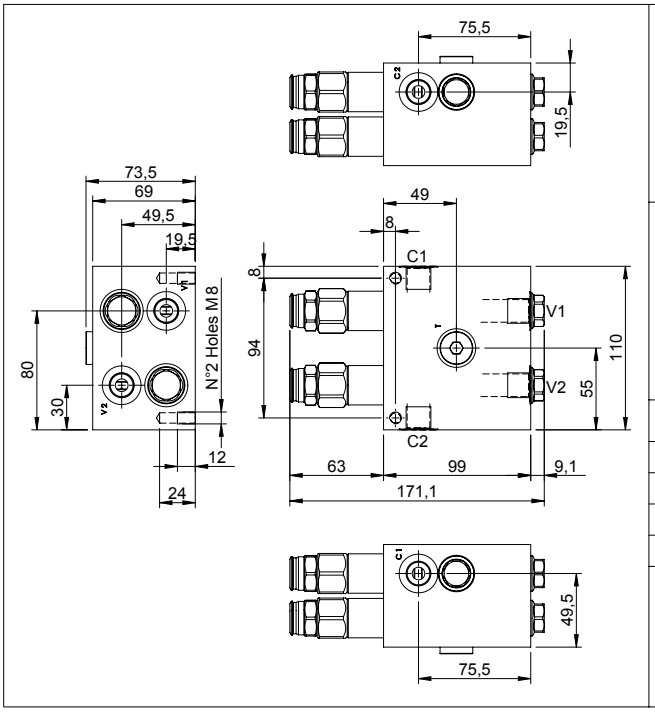
SEALING CAP

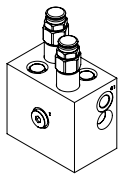
Ordering code:

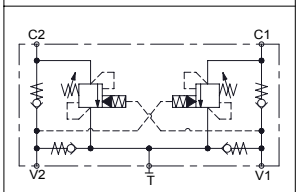
Double Overcentre Valves

Double Overcentre - Motion Control - Stabilized

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000023	Double Overcentre	40 LPM	350 BAR	3/8” BSPP	9:1	$ 740.00
MN000029	Double Overcentre	40 LPM	350 BAR	3/8” BSPP	3:1	$ 740.00



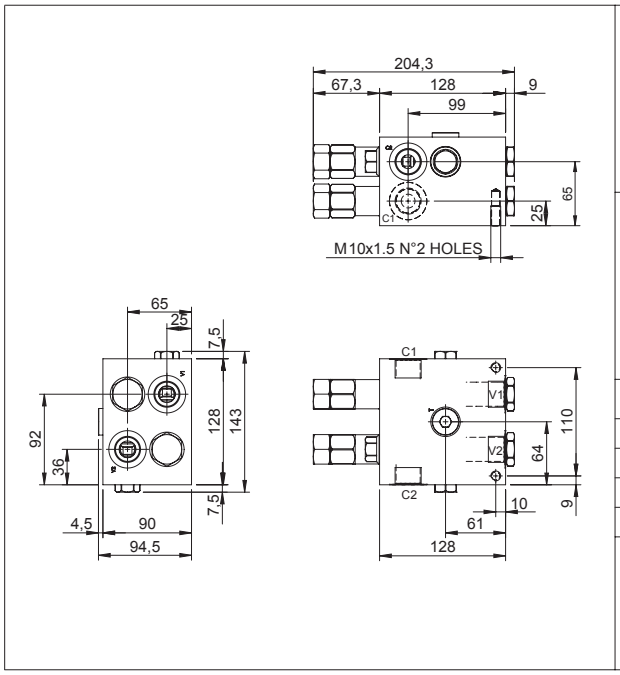


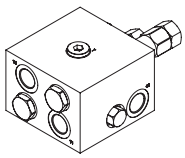


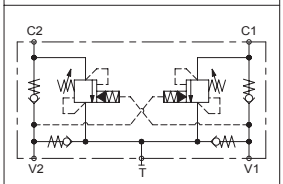
SPECIFICATIONS	
Max. operating pressure:	300 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	2,66 kg

Double Overcentre - Motion Control - Stabilized

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000013	Double Overcentre	120 LPM	350 BAR	3/4” BSPP	8:1	$ 990.00
MN000012	Double Overcentre	120 LPM	350 BAR	3/4” BSPP	3:1	$ 990.00





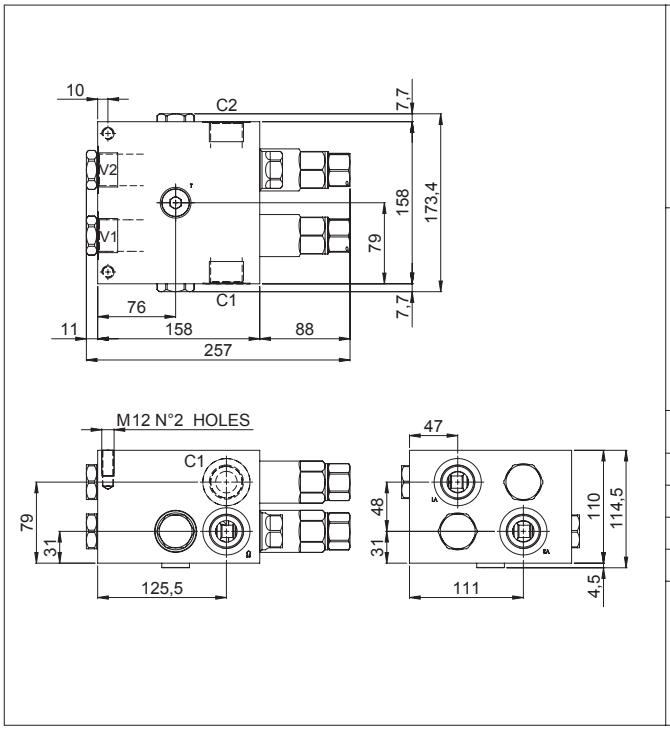


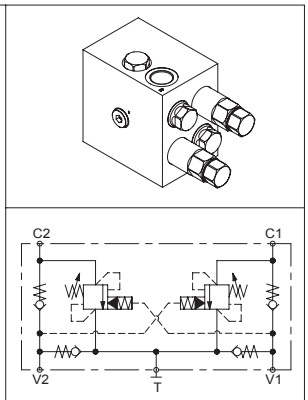
SPECIFICATIONS	
Max. operating pressure:	350 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,02 kg

Double Overcentre Valves

Double Overcentre - Motion Control - Stabilized

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000020	Double Overcentre	200 LPM	350 BAR	1” BSPP	8:1	$ 1500.00



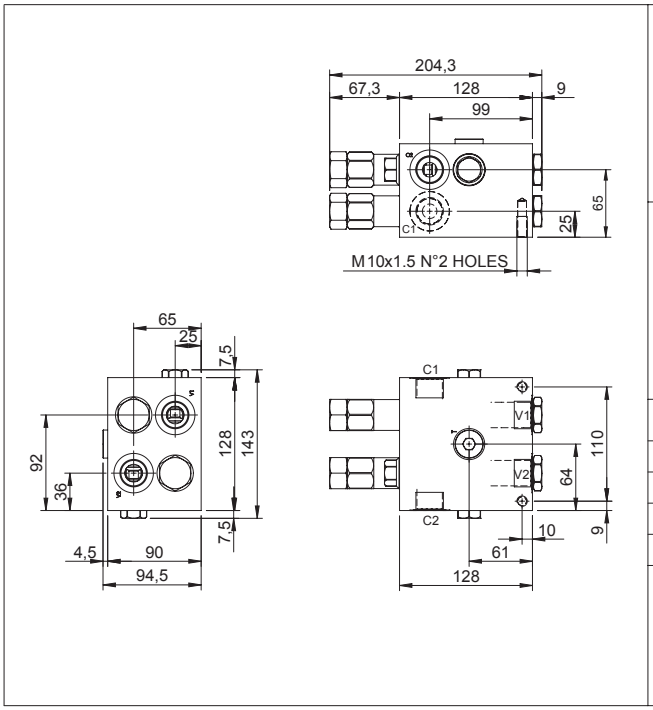


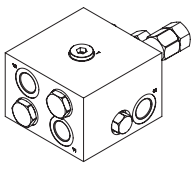
SPECIFICATIONS

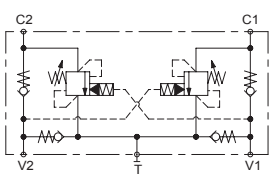
Max. operating pressure:	350 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	9,74 kg

Double Overcentre - Motion Control - Stabilized with Brake Release

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000008	Double Overcentre	40 LPM	350 BAR	3/8” BSPP	9:1	$ 748.00
MN000033	Double Overcentre	40 LPM	350 BAR	3/8” BSPP	3:1	$ 748.00







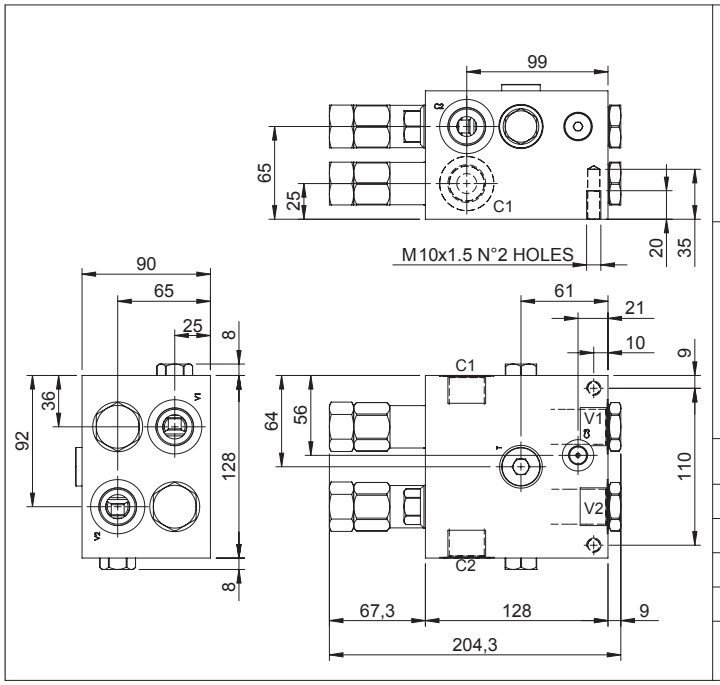
SPECIFICATIONS

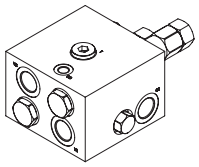
Max. operating pressure:	350 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,02 kg

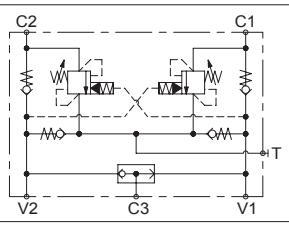
Double Overcentre Valves

Double Overcentre - Motion Control - Stabilized with Brake Release

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000014	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	8:1	$ 990.00
MN000015	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	3:1	$ 990.00





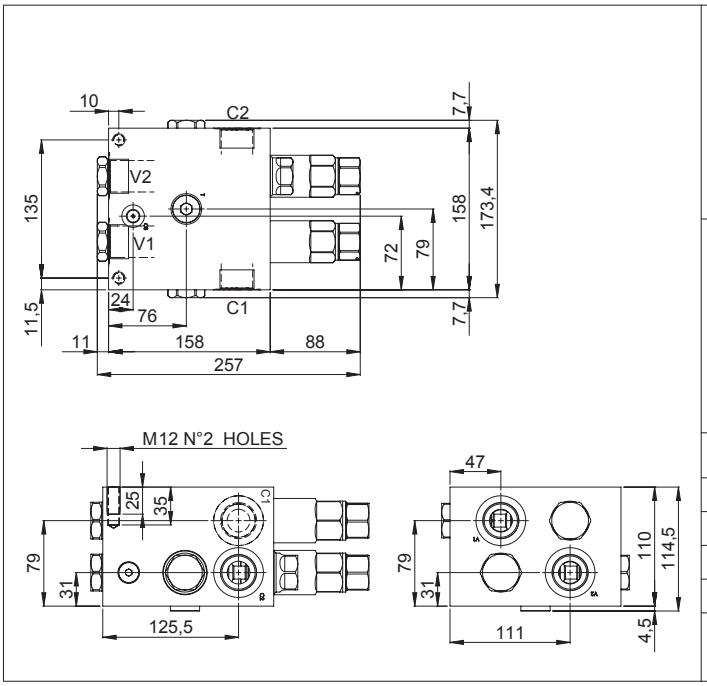


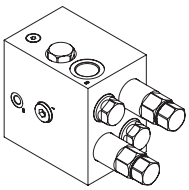
SPECIFICATIONS

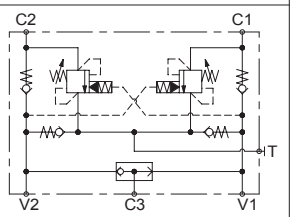
Max. operating pressure:	350 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,03 kg

Double Overcentre - Motion Control - Stabilized with Brake Release

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000021	Double Overcentre	200 LPM	350 BAR	1" BSPP	8:1	$ 1090.00







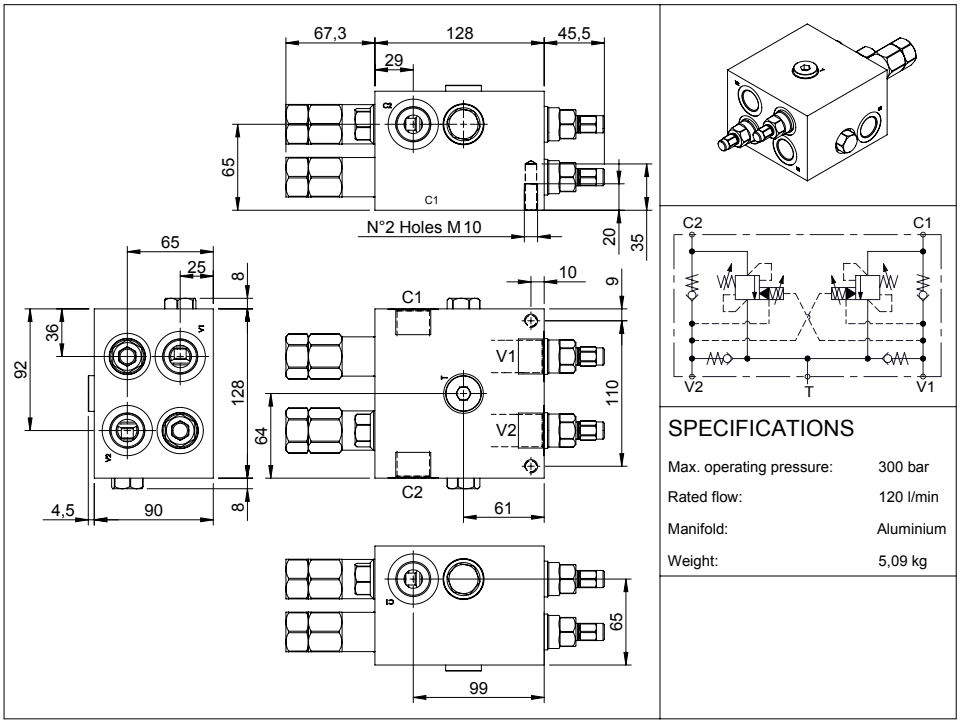
SPECIFICATIONS

Max. operating pressure:	350 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	9,74 kg

Double Overcentre Valves

Double Overcentre - Motion Control - Soft Stop Dual Setting

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000017	Double Overcentre	120 LPM	350 BAR	3/4" BSPP	8:1	$ 960.00

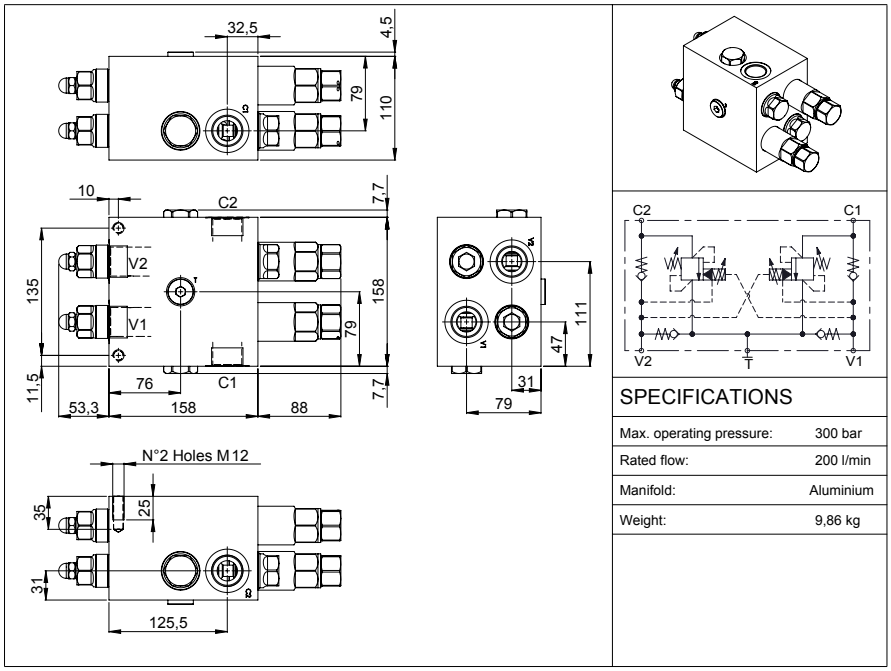


SPECIFICATIONS

Max. operating pressure:	300 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,09 kg

Double Overcentre - Motion Control - Soft Stop Dual Setting

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000004	Double Overcentre	200 LPM	350 BAR	1" BSPP	8:1	$ 1519.00



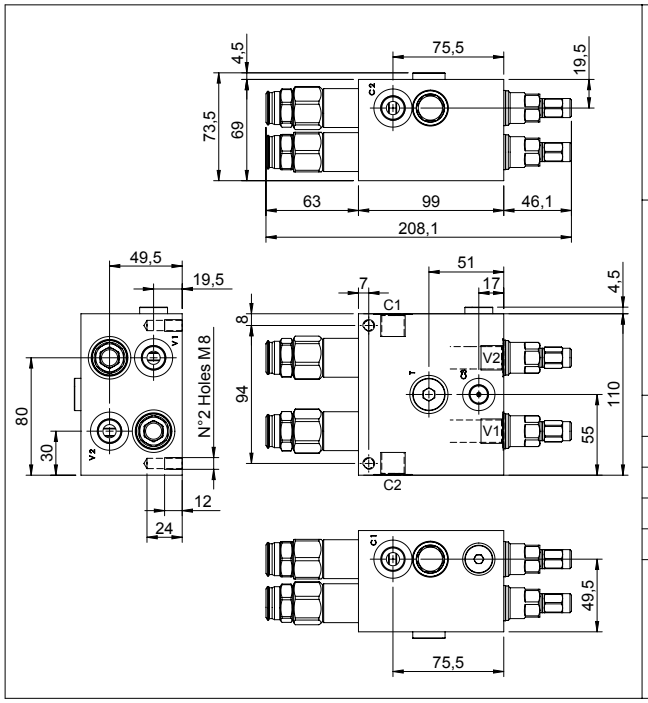
SPECIFICATIONS

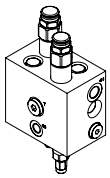
Max. operating pressure:	300 bar
Rated flow:	200 l/min
Manifold:	Aluminium
Weight:	9,86 kg

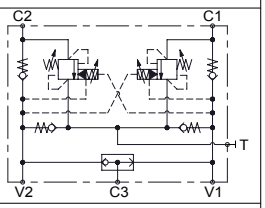
Double Overcentre Valves

Double Overcentre - Motion Control - Soft Stop Dual Setting with Brake Release

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000019	Double Overcentre	40 LPM	300 BAR	3/8" BSPP	9:1	$ 813.00
MN000028	Double Overcentre	40 LPM	300 BAR	3/8" BSPP	9:1	$ 813.00





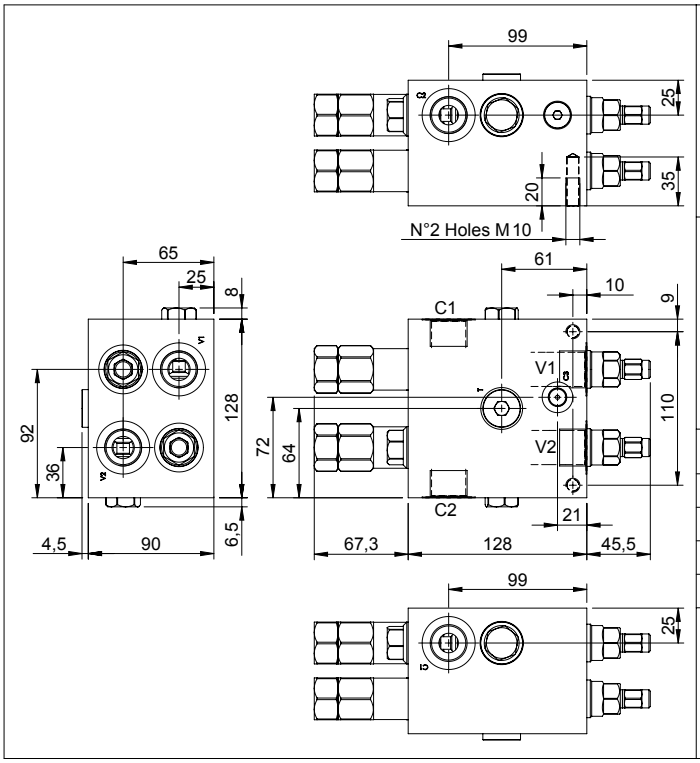


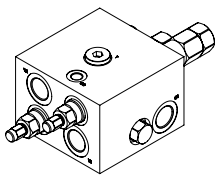
SPECIFICATIONS

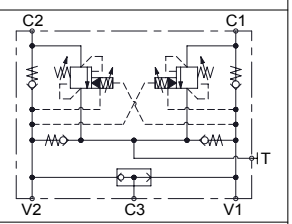
Max. operating pressure:	300 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	2,76 kg

Double Overcentre - Motion Control - Soft Stop Dual Setting with Brake Release

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000010	Double Overcentre	120 LPM	300 BAR	3/4" BSPP	8:1	$ 1026.00







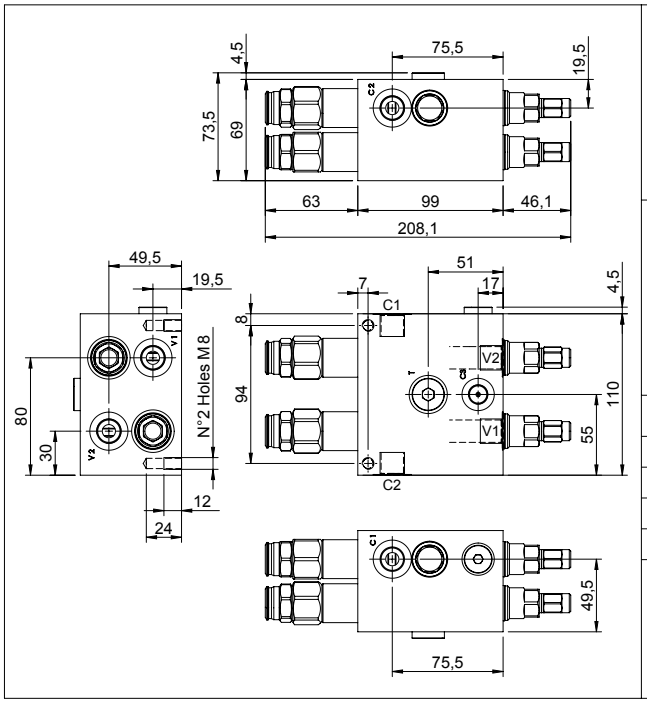
SPECIFICATIONS

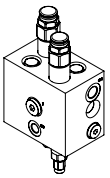
Max. operating pressure:	300 bar
Rated flow:	120 l/min
Manifold:	Aluminium
Weight:	5,1 kg

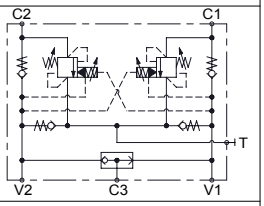
Double Overcentre Valves

Double Overcentre - Motion Control - Soft Stop Dual Setting with Brake Release

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
MN000022	Double Overcentre	200 LPM	300 BAR	1” BSPP	8:1	$ 1519.00







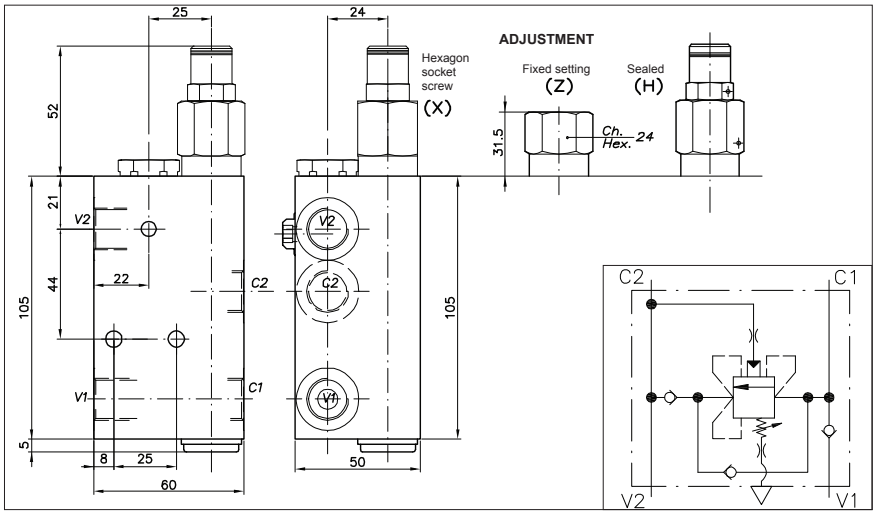
SPECIFICATIONS

Max. operating pressure:	300 bar
Rated flow:	40 l/min
Manifold:	Aluminium
Weight:	2,76 kg

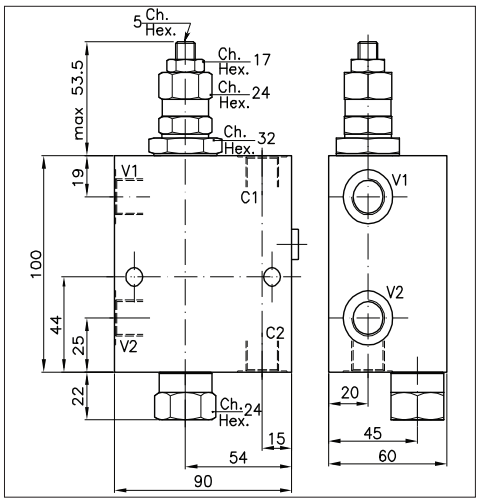
006 Regenerative Valves

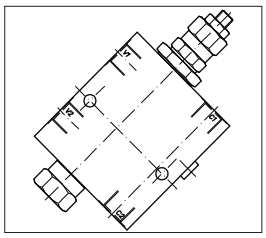
Regen Valves - Line Mounted - Steel

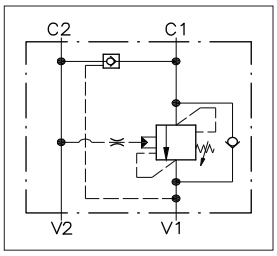
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Pilot Ratio	List Price
0061540X0	Regen Valve	40 LPM	350 BAR	3/8" BSPP	4.25 : 1	$ 470.00
0061590X0	Regen Valve	40 LPM	350 BAR	1/2" BSPP	4.25 : 1	$ 530.00
006151LX0	Regen Valve	160 LPM	350 BAR	3/4" BSPP	6.21 : 1	$ 500.00



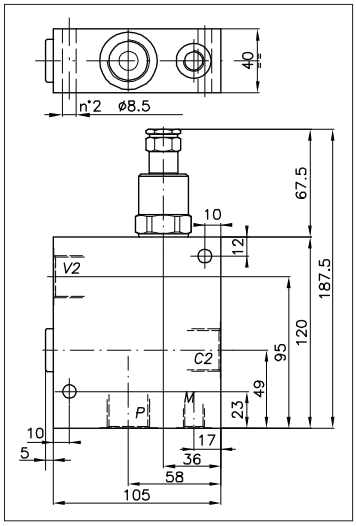
TECHNICAL DATA - 0061540X0	
Rated size	DN 8
Max. flow in V1 - V2 port	40 l/min - 10.5 gpm
Max. working pressure	350 bar - 5075 PSI
Max. setting pressure	350 bar - 5075 PSI
Oil temperature	-30°C +80°C
Recommended filtration	30 micron
Material	Steel
Weight	4 kg
Valve should be set at **1.3** times load induced pressure.	

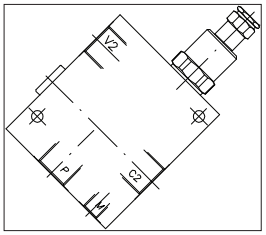


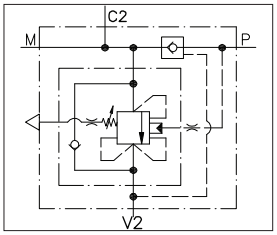


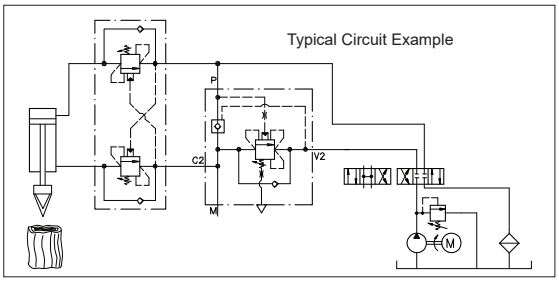


TECHNICAL DATA - 0061590X0	
Rated size	DN 8
Max. flow in V2 port	40 l/min
Max. working pressure	350 bar - 5075 PSI
Max. setting pressure	350 bar - 5075 PSI
Oil temperature	-30°C +80°C
Recommended filtration	30 micron
Material	Steel
Weight	3 kg
Valve should be set at **1.3** times load induced pressure.	
This valve is used for fast extension of cylinder rod; typical application in small presses and trash compactors. Cut out pressure of the regenerative function can be adjusted within a pressure range by an overcentre valve.	







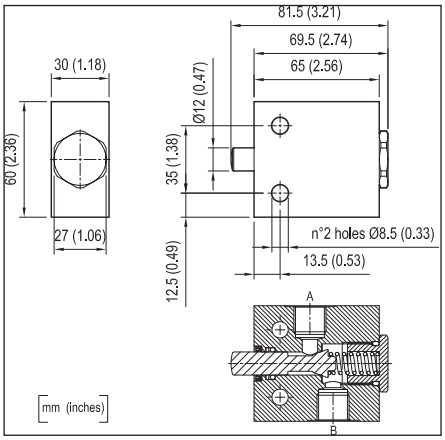


TECHNICAL DATA - 006151LX0	
Rated size	DN 12
Max. flow in V2 port	160 l/min - 42 gpm
Max. working pressure	350 bar - 5075 PSI
Max. setting pressure	350 bar - 5075 PSI
Oil temperature	-30°C +80°C
Recommended filtration	30 micron
Material	Steel
Weight	5 kg
Valve should be set at **1.3** times load induced pressure.	
This valve is used for fast extension of cylinder rod; typical application in small presses and trash compactors. Cut out pressure of the regenerative function can be adjusted within a pressure range by an overcentre valve.	

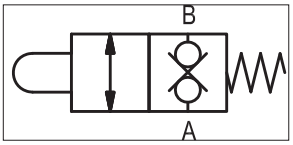
FC/FP End of Stroke Valves

End of Stroke Valve

Stock No.	Description	Port Size	Max. Flow Rate	Maximum Pressure	List Price
FC10C10	End of Stroke Valve	3/8” Gas	30 LPM	250 BAR	$ 220.00



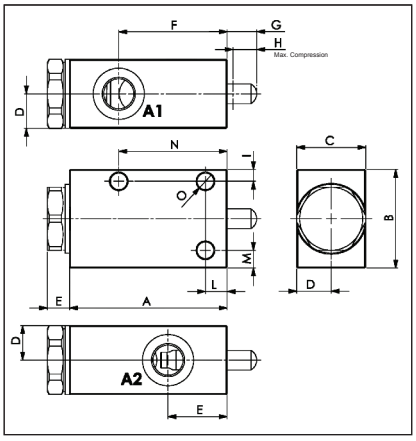
TECHNICAL DATA	
Max. working pressure	250 bar
Max. flow	30 l/min
Relief setting: at least 1.3 times the highest expected load.	
Weight	0.8 kg
Manifold material	Steel

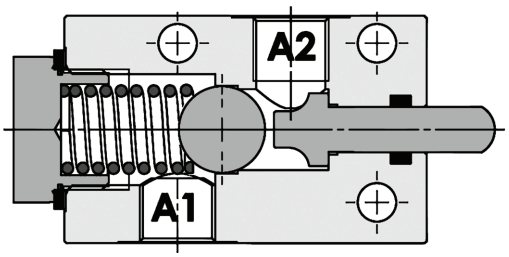


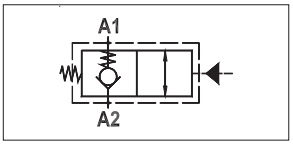
Spring weight - N	
End stroke	Of stroke
94	284

End of Stroke Valve

Stock No.	Description	Port Size	Max. Flow Rate	Maximum Pressure	List Price
FPFC38	End of Stroke Valve	3/8” Gas	40 LPM	250 BAR	$ 220.00

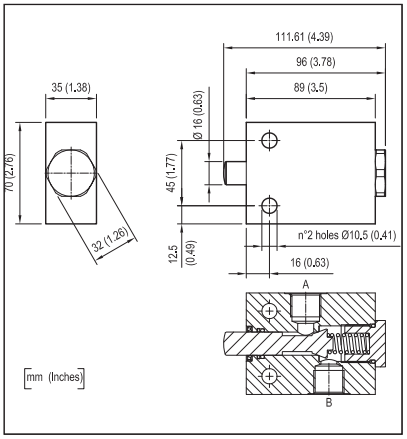




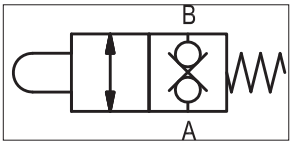


End of Stroke Valve

Stock No.	Description	Port Size	Max. Flow Rate	Maximum Pressure	List Price
FC13C13	End of Stroke Valve	1/2” Gas	60 LPM	250 BAR	$ 300.00



TECHNICAL DATA	
Max. working pressure	250 bar
Max. flow	60 l/min
Relief setting: at least 1.3 times the highest expected load.	
Weight	1.5 kg
Manifold material	Steel

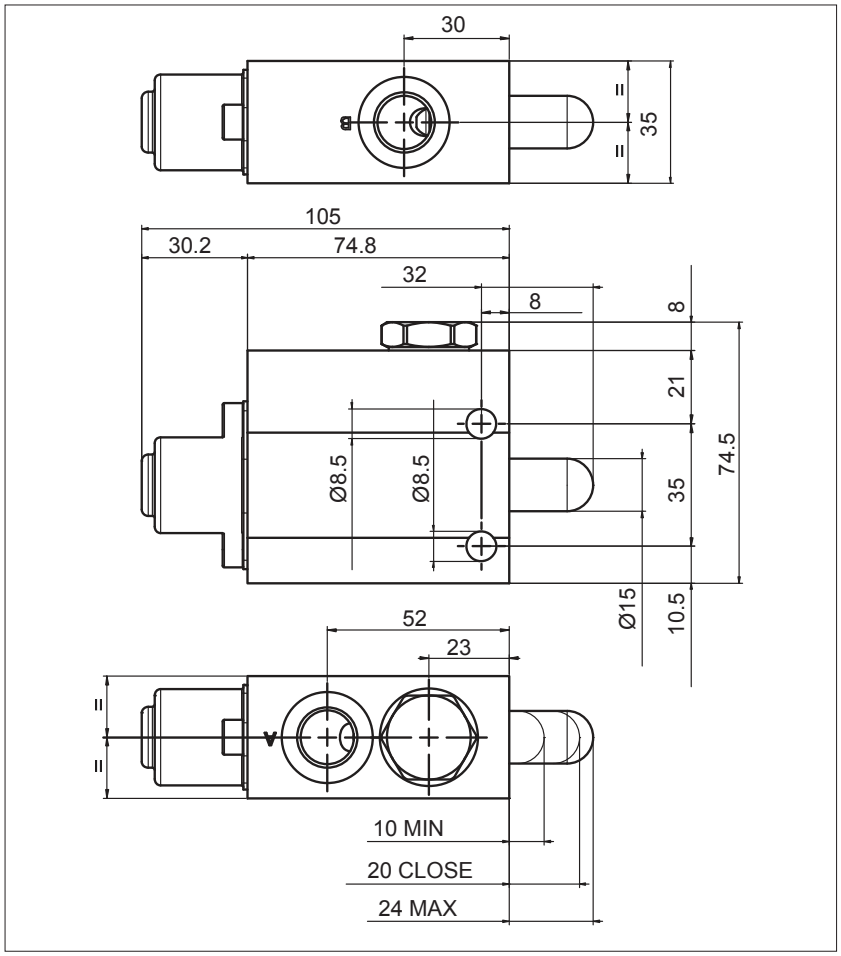


Spring weight - N	
End stroke	Of stroke
170	470

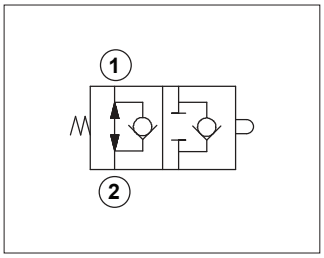
End of Stroke Valve

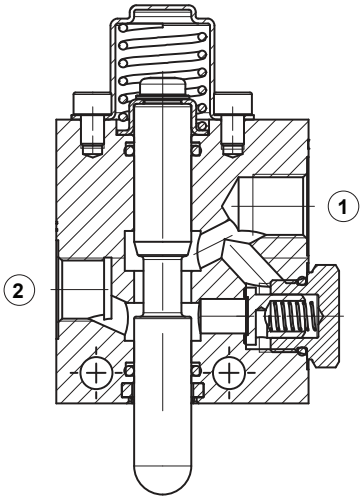
End of Stroke Valve, Normally Open with Check

Stock No.	Description	Port Size	Max. Flow Rate	Maximum Pressure	List Price
VFCNAG38N	End Stroke	G - 3/8”	40 LPM	250 BAR	$ 230.00



Typical Application Schematic

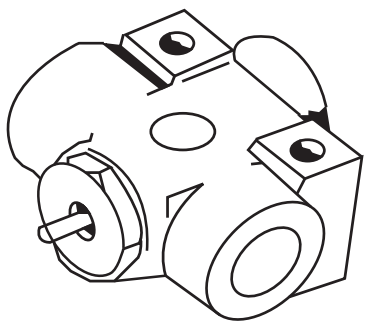




Special Application Valves

Depth Control Valve

Stock No.	Description	Maximum Working Pressure	Maximum Shock & Surge Pressure	Port Sizes	List Price
700004	Depth Control Valve	3500 PSI (240 BAR)	4500 PSI (310 BAR)	3/4” UNO	$ 210.00



The CROSS Model DCV valve is a frame mounted hydraulic depth control valve designed to control two cylinders operating on a common torque tube (rocker shaft). An actuator arm mounted on the rocker shaft will depress the DCV valve stem at a pre-set rocker shaft position, stopping the cylinder and controlling tillage depth.

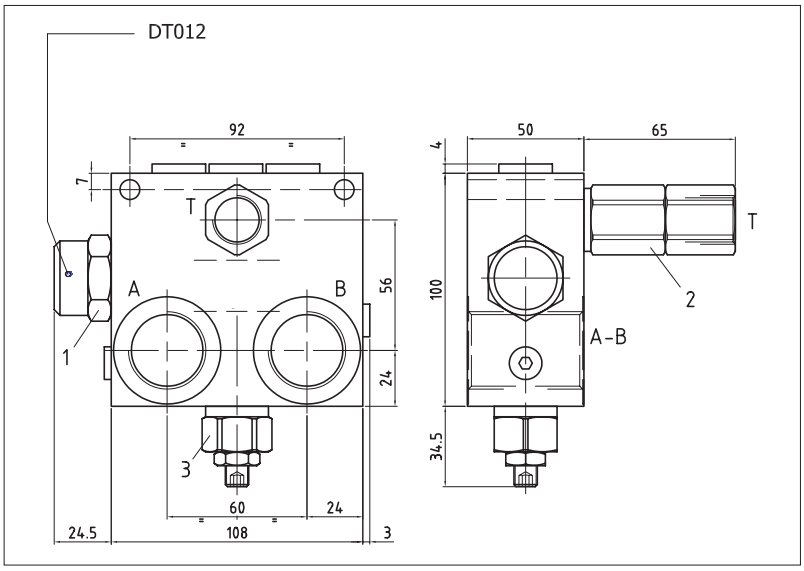
Internal passages of the DCV valve connects the base of both cylinder. This prevents any torsional wind-up of the torque tube. Unequal settings of individual depth stop cylinders, a break in the line to a cylinder would normally result in the implement load being carried by one cylinder. With the DCV valve, any leakage or breakage results in both cylinders moving in unison. The valve can be mounted on the most easily accessible location on the implement.

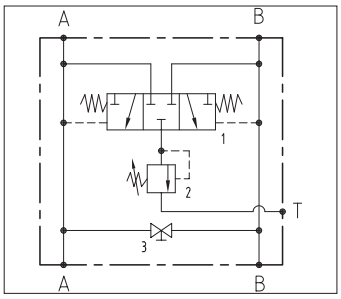
The depth control cartridge features an ‘O’ ring and back-ups on static seals and a urethane U-cup seal on the valve stem to give positive zero leakage and extended valve life.

Special Application Valves

For Hydrostatic Transmission Purge

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
210310104100	Purge Valve	80 LPM	350 BAR	3/4" BSPP	Steel	$ 580.00
210310105100	Purge Valve	100 LPM	350 BAR	1" BSPP	Steel	$ 580.00

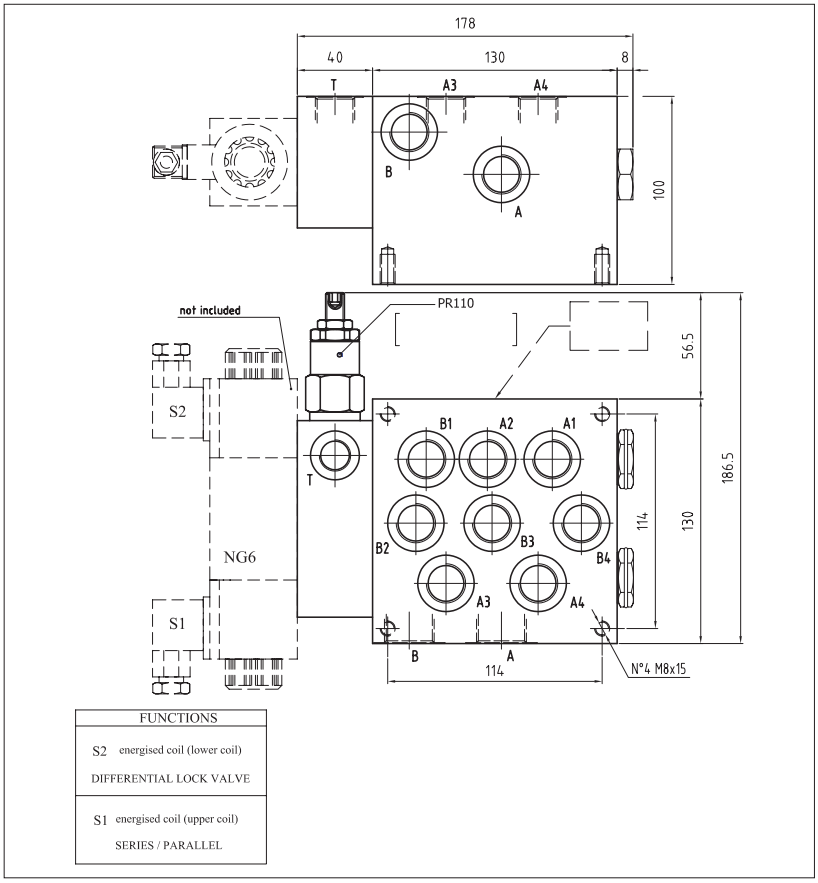


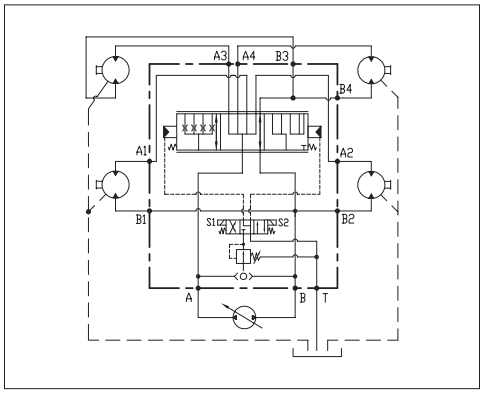


TECHNICAL DATA	
Max. working pressure	350 bar
Flow through shuttle valve and purge relief valve see performance graph.	
Steel body	

For Series-Parallel Differential Lock Valve

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
210041203100	Series-Parallel Valve	80 LPM	350 BAR	3/4" / 1/2"	Steel	$ 1650.00





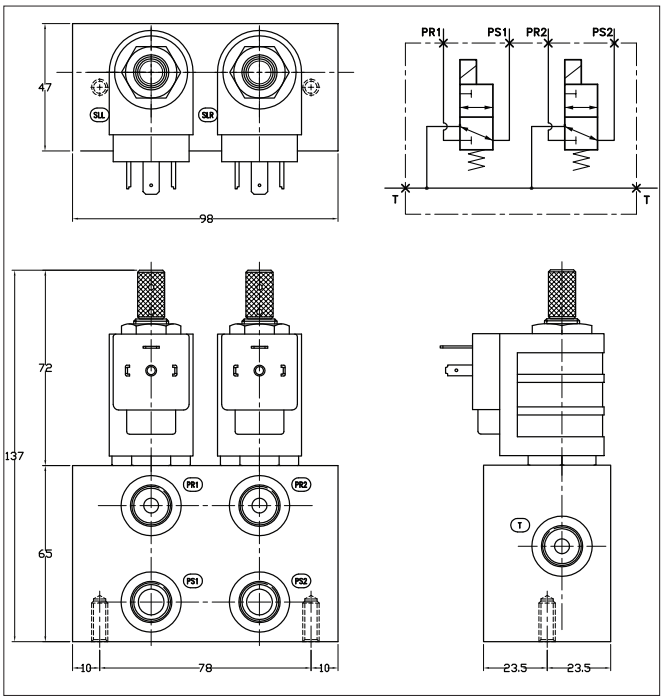
TECHNICAL DATA	
Max Operating Pressure	35 MPa - 5076 PSI
Max. flow	80 l/min
Temperature Range	-20°C +80°C
Recommended filtration	40 micron
Material	Zinc Coated Steel
Weight	15 kg
Allows the traction control from the 4 hydraulic motors by changing from a normally parallel circuit to a serial circuit for to double the velocity or to a differential circuit for the equal distribution of the flow to the motor.	

Special Application Valves

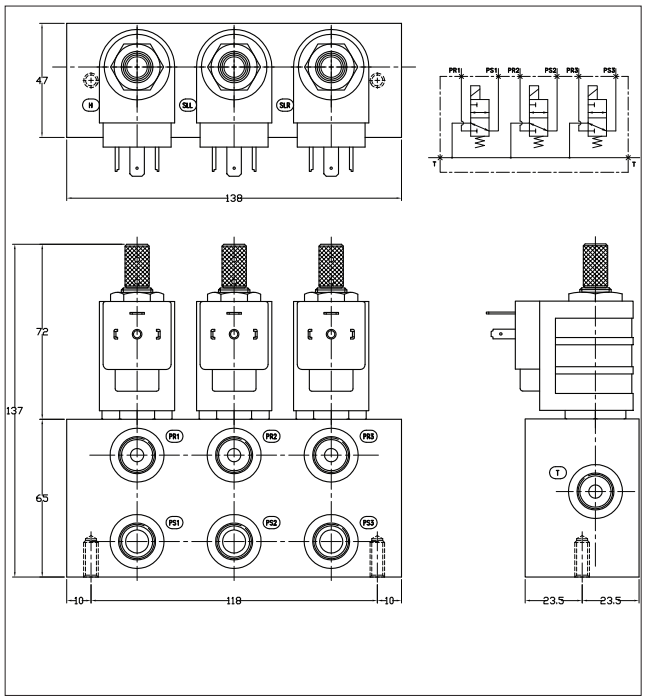
Height Limiter Pilot Control

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
PSX2001	2 Limiter 12V DC	30 LPM	210 BAR	9/16” UN	Aluminium	$ 604.00
PSX3001	3 Limiter 12V DC	30 LPM	210 BAR	9/16” UN	Aluminium	$ 912.00

PSX2001

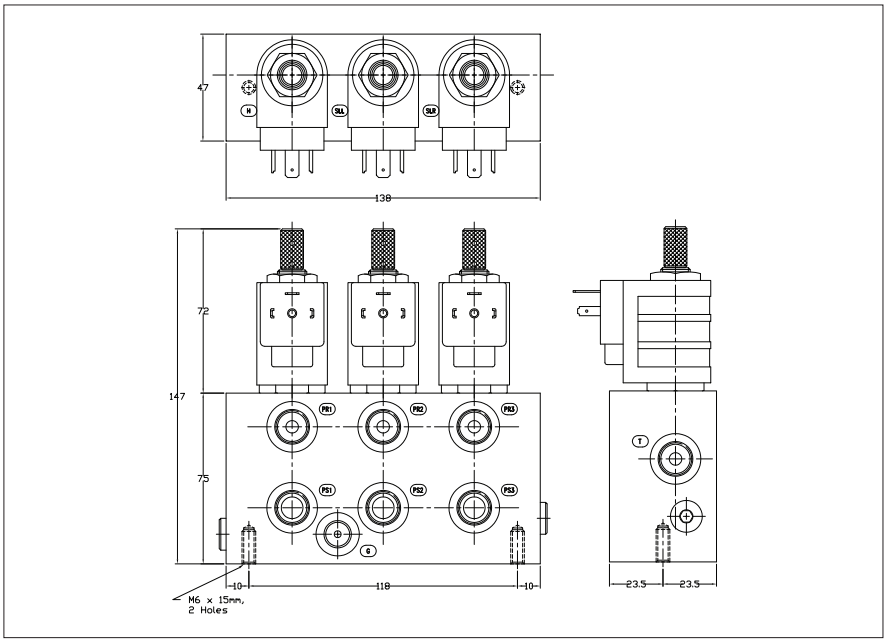


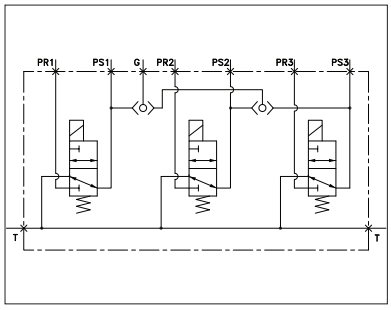
PSX3001



Height Limiter Pilot Control with Shuttle

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
PSX3002	3 Limiter 12V DC	30 LPM	210 BAR	9/16” UN	Aluminium	$ 927.00
PSX3003	3 Limiter 24V DC	30 LPM	210 BAR	9/16” UN	Aluminium	$ 927.00

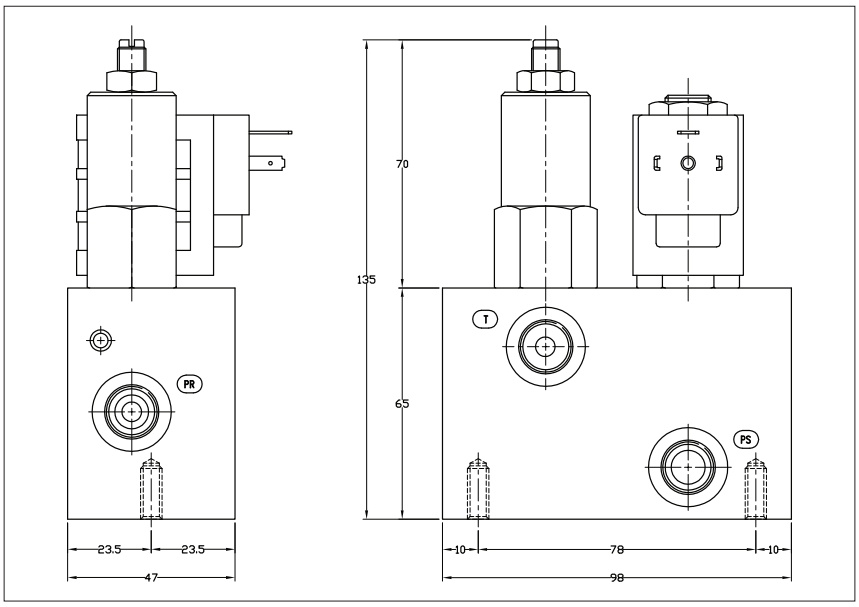


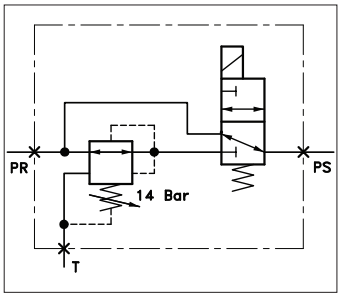


Special Application Valves

Two Speed Pilot Control

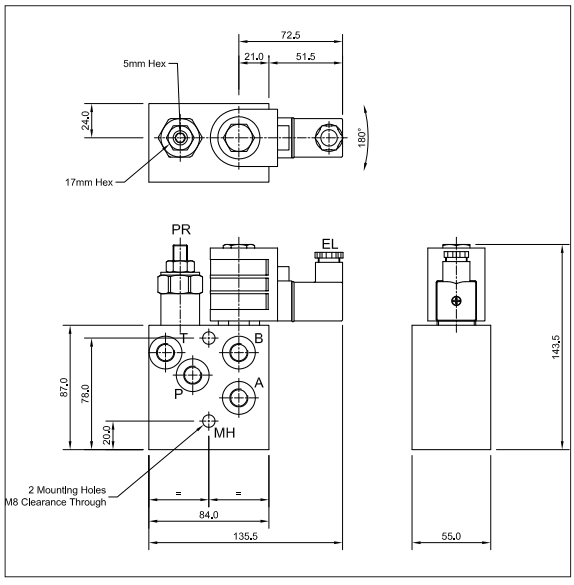
Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
PSDF001	Valve 12V DC	30 LPM	7-210 BAR	9/16” UN	Aluminium	$ 523.00

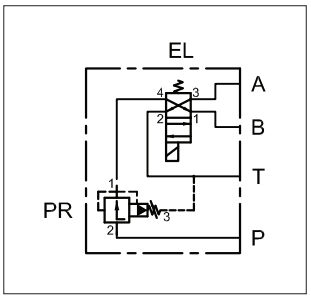


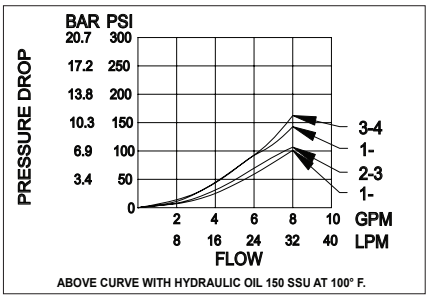


Quick Hitch Valve

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Body	List Price
QHV10HC12	Quick Hitch Valve	16 LPM	350 BAR Inlet	1/4” BSPP	Steel	$ 688.00
QHV10HC24	Quick Hitch Valve	16 LPM	350 BAR Inlet	1/4” BSPP	Steel	$ 688.00







ABOVE CURVE WITH HYDRAULIC OIL 150 SSU AT 100° F.

ORDERING INFORMATION

QHV10	-	****

BASIC MODEL NO.
QHV10

VOLTAGE
HC12 - 12V DC
HC24 - 24V DC
HC22 - 240V AC

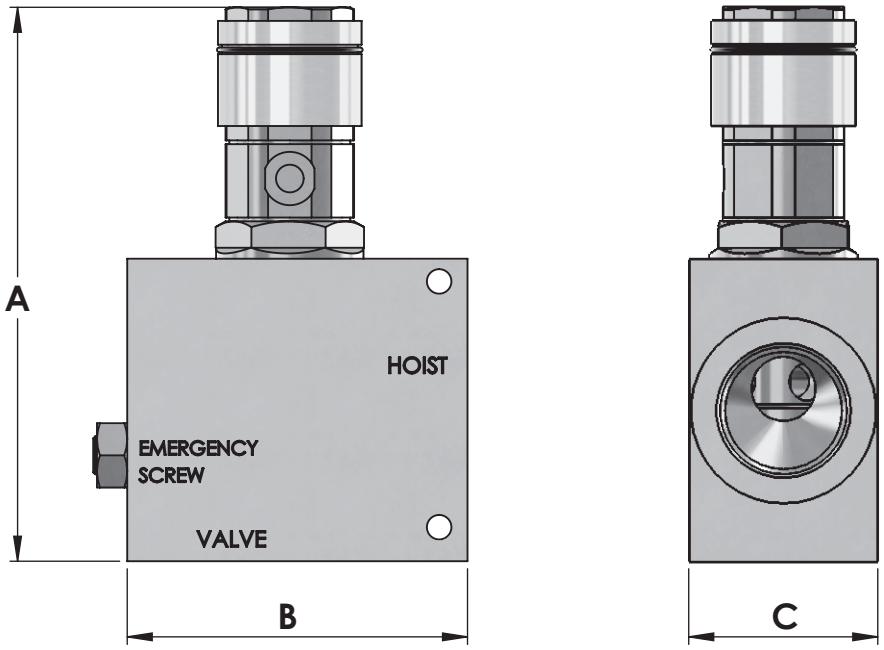
VALVE SPECIFICATIONS	
Nominal Flow	16 lpm
Maximum Inlet Pressure	350 Bar
Maximum Reduced Pressure	207 Bar
Typical Internal Leakage (150 SSU)	5 in3/min. (82ml/min) Per Path
Response Time (average at full rated conditions)	30 mil-sec to 45 mil-sec
Viscosity Range	36 SSU (3CS) to 3000 SSU (647CS)
Filtration	30 micron nominal
Media Operating Temperature Range	-35° F (-37.2° C) to 200° F (93.3° C)
Seals	Buna-N O-rings, standard
Weight	4 Kgs
Design	4W2P Spool Valve
Operating Fluid Media	All General Purpose Hydraulic Fluid
Cartridges Torque Requirements	30 Ft. lbs at 3000 PSI
Coil Nut Torque Requirements	15 In. lbs to 45 In. lbs

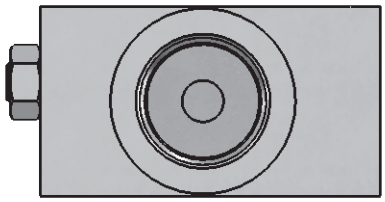
Hoist Check Valves

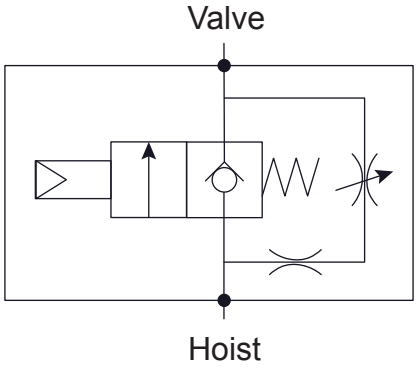
Tipper Cylinder Blocking Valves

Inline Version - Direct Acting, Pneumatically Operated

Stock No.	Description	Maximum Flow	Maximum Pressure	Port Size	Dimensions			List Price
					A	B	C	
0E6505181409	Hoist Check Valve	30 LPM	350 BAR	1/4" BSPP	123	68	30	$ 371.00
0E6505181402	Hoist Check Valve	40 LPM	350 BAR	3/8" BSPP	123	68	30	$ 371.00
0E6505171403	Hoist Check Valve	70 LPM	350 BAR	1/2" BSPP	135	80	40	$ 398.00
0E6505171404	Hoist Check Valve	70 LPM	350 BAR	3/4" BSPP	135	80	40	$ 398.00
0E6505211404	Hoist Check Valve	150 LPM	350 BAR	3/4" BSPP	147	90	50	$ 478.00
0E6505211405	Hoist Check Valve	150 LPM	350 BAR	1" BSPP	147	90	50	$ 478.00





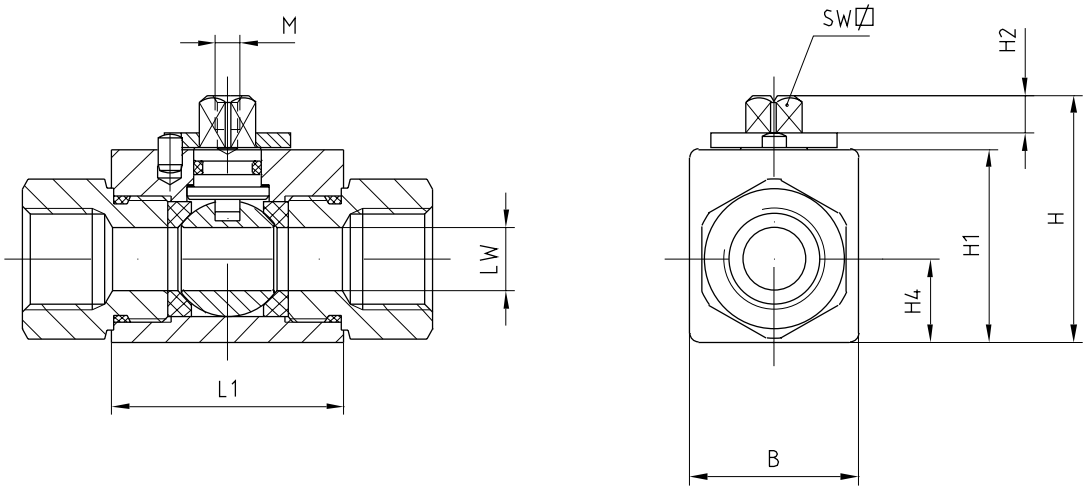


COMPLIANCE
This valve can be utilised as the controlled lowering device on AS1418.8 compliant Tipper Hydraulic Circuits.

BKH/SKH 2 Way Ball Valves

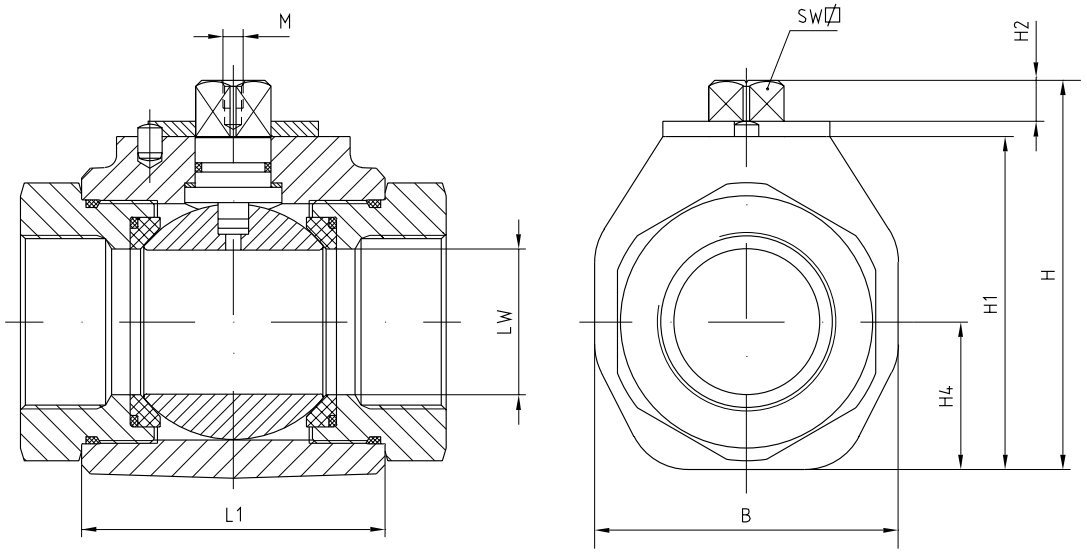
2 Way High Pressure Ball Valves - Block Type Body

Stock No.	Description	Port Size BSPP	Max Press. Bar	LW mm	L1 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	M mm	SWØ mm	Wt Kg	List Price
BKHG18	2 Way Ball Valve	1/8”	500	5	36	26	43.5	32	8	13	M5	9	0.35	$ 48.00
BKHG14	2 Way Ball Valve	1/4”	500	6	36	26	43.5	32	8	13	M5	9	0.35	$ 47.00
BKHG38	2 Way Ball Valve	3/8”	500	10	43	32	49	38	8	16	M5	9	0.50	$ 52.00
BKHG12	2 Way Ball Valve	1/2”	500	13	48	35	51	40	8	17.5	M5	9	0.65	$ 67.00
BKHG34	2 Way Ball Valve	3/4”	400	20	62	49	73	57	12	24.5	M6	14	1.50	$ 110.00
BKHG100	2 Way Ball Valve	1”	350	24	66	60	76	60	12	26.5	M6	14	2.00	$ 136.00
BKHG114	2 Way Ball Valve	1-1/4”	350	24	66	60	76	60	12	26.5	M6	14	2.00	$ 185.00



2 Way High Pressure Ball Valves - Forged Steel Body

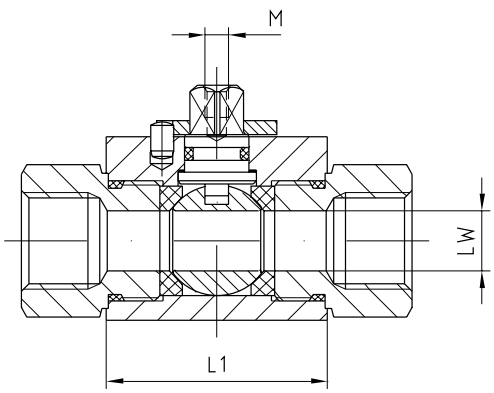
Stock No.	Description	Port Size BSPP	Max Press. Bar	LW mm	L1 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	M mm	SWØ mm	Wt Kg	List Price
SKH114	2 Way Ball Valve	1-1/4”	350	32	80	76	104	84	13.5	38	M8	17	3.20	$ 337.00
SKH112	2 Way Ball Valve	1-1/2”	350	40	85	83	111	92	13.5	41.5	M8	17	4.00	$ 528.00
SKH200	2 Way Ball Valve	2”	350	48	100	100	130	111	13.5	50	M8	19	5.90	$ 648.00

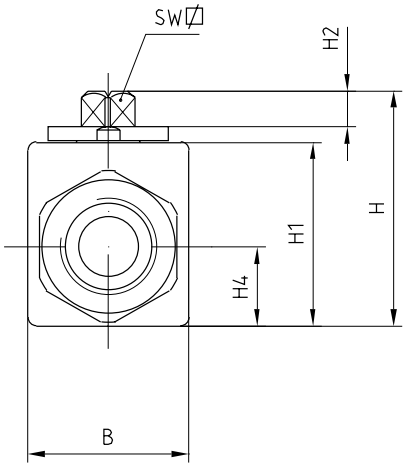


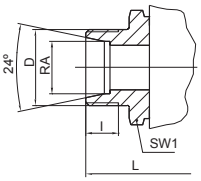
BKH Metric 2 Way Ball Valves

2 Way High Pressure Ball Valves - Block Type Body, Light Series

Stock No.	Port Size mm	Thread Size D	Max Press. Bar	LW mm	L mm	B mm	H mm	H1 mm	H2 mm	H4 mm	M mm	L1 mm	l mm	SWØ mm	SW mm	Wt Kg	List Price
BKH6L04	6	M12x1.5	500	5	67	26	43.5	32	8	13	M5	36	10	9	22	0.30	$ 48.00
BKH8L06	8	M14x1.5	500	6	67	26	43.5	32	8	13	M5	36	10	9	22	0.30	$ 48.00
BKH10L08	10	M16x1.5	500	8	71	26	43.5	32	8	13	M5	36	11	9	22	0.30	$ 48.00
BKH12L08	12	M18x1.5	500	8	71	32	49	38	8	16	M5	43	11	9	22	0.30	$ 48.00
BKH12L10	12	M18x1.5	500	10	75	32	49	38	8	16	M5	43	11	9	27	0.50	$ 48.00
BKH15L10	15	M22x1.5	500	10	77	35	51	40	8	17.5	M5	48	12	9	27	0.50	$ 52.00
BKH15L13	15	M22x1.5	500	13	84	35	51	40	8	17.5	M5	48	12	9	30	0.60	$ 67.00
BKH15L16	15	M26x1.5	500	13	84	38	62	46	12	19	M6	48	12	12	30	0.60	$ 94.00
BKH18L13	18	M22x1.5	500	13	83	35	51	40	8	17.5	M5	48	12	9	32	0.75	$ 67.00
BKH18L16	18	M26x1.5	500	15	83	38	62	46	12	19	M6	48	12	12	32	0.75	$ 94.00
BKH22L20	22	M30x2	400	20	102	49	73	57	12	24.5	M6	62	14	14	41	1.50	$ 110.00
BKH28L25	28	M36x2	350	24	108	60	76	60	12	26.5	M6	66	14	14	46	2.00	$ 136.00
BKH35L25	35	M45x2	350	24	114	60	76	60	12	26.5	M6	66	16	14	50	2.10	$ 185.00
BKH42L25	42	M52x2	350	24	114	60	76	60	12	26.5	M6	66	16	14	55	2.20	$ 185.00







BBKH 2 Way Mining Ball Valves

2 Way Staple Lock High Pressure Ball Valves - Female x Female

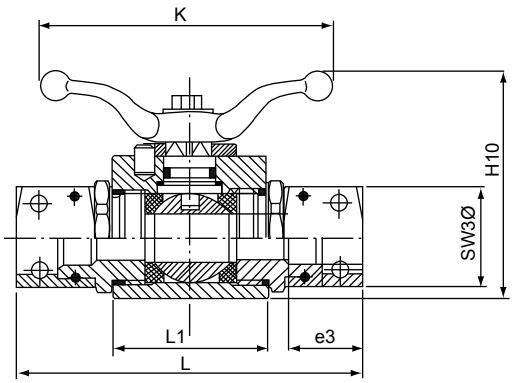
Stock No.	Description	Port Size DN	Max Press. Bar	e3 mm	K mm	L mm	L1 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	H10 mm	M mm	SW Ø mm	SW 3 Ø mm	List Price
BBKHMDMD10	Female x Female	10	500	27	116	113	43	32	49	38	8	16	69.5	M5	9	30	$ 114.00
BBKHMDMD13	Female x Female	13	500	27	116	118	48	35	51	40	8	17.5	73.5	M5	9	32	$ 128.00
BBKHMDMD20	Female x Female	20	400	27	116	138	62	49	73	57	12	24.5	89	M6	14	40	$ 202.00
BBKHMDMD25	Female x Female	25	350	33	116	151	66	60	76	60	12	26.5	92	M6	14	55	$ 252.00

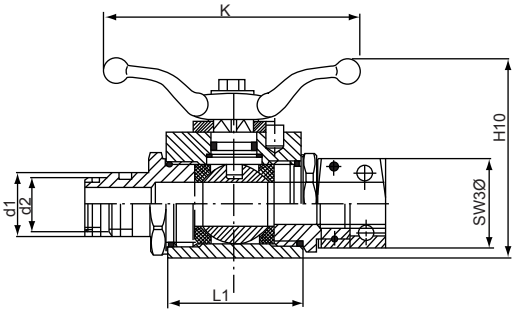
2 Way Staple Lock High Pressure Ball Valves - Male x Female

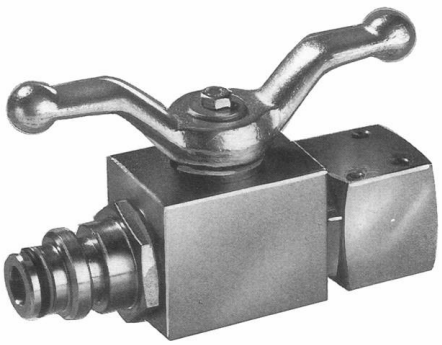
Stock No.	Description	Port Size DN	Max Press. Bar	d1 mm	d2 mm	K mm	L1 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	H10 mm	M mm	SW Ø mm	SW 3 Ø mm	List Price
BBKHMDN10	Male x Female	10	500	20	14	116	43	32	49	38	8	16	69.5	M5	9	30	$ 114.00
BBKHMDN13	Male x Female	13	500	24	18	116	48	35	51	40	8	17.5	73.5	M5	9	32	$ 128.00
BBKHMDN20	Male x Female	20	400	29	24	116	62	49	73	57	12	24.5	89	M6	14	40	$ 202.00
BBKHMDN25	Male x Female	25	350	29	31	116	66	60	76	60	12	26.5	92	M6	14	55	$ 252.00

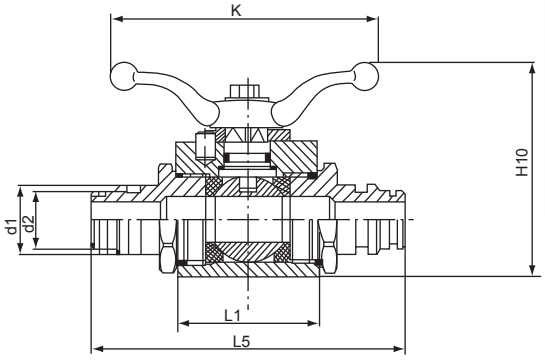
2 Way Staple Lock High Pressure Ball Valves - Male x Male

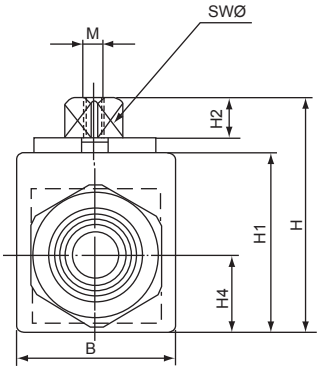
Stock No.	Description	Port Size DN	Max Press. Bar	d1 mm	d2 mm	K mm	L1 mm	L5 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	H10 mm	M mm	SW Ø mm	List Price
BBKHNN10	Male x Male	10	500	20	14	116	43	113	32	49	38	8	16	69.5	M5	9	$ 114.00
BBKHNN13	Male x Male	13	500	24	18	116	48	118	35	51	40	8	17.5	73.5	M5	9	$ 128.00
BBKHNN20	Male x Male	20	400	29	24	116	62	133	49	73	57	12	24.5	89	M6	14	$ 202.00
BBKHNN25	Male x Male	25	350	29	31	116	66	151	60	76	60	12	26.5	92	M6	14	$ 252.00







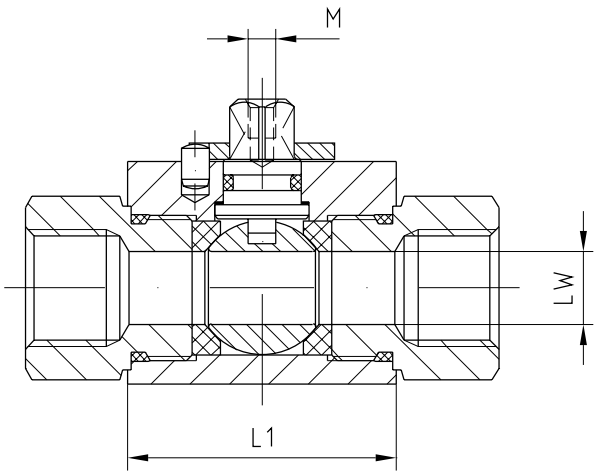


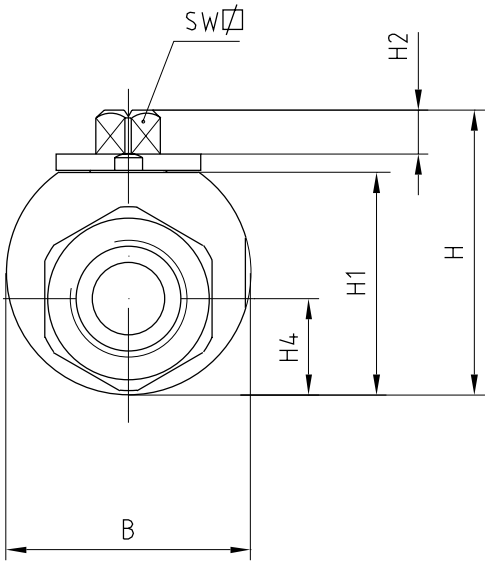


RKH 2 Way Stainless Steel Ball Valves

2 Way High Pressure Ball Valves - Gr. 316 Stainless Steel

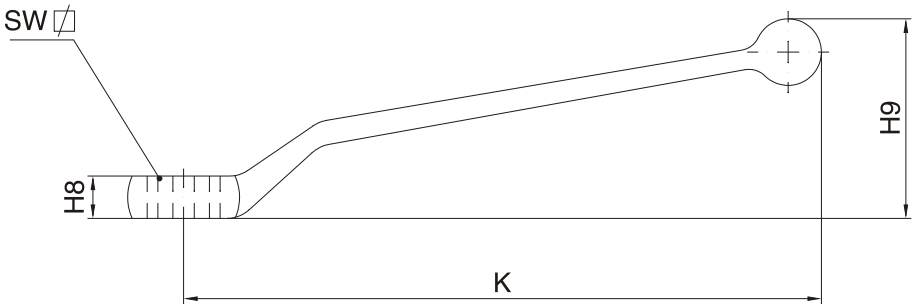
Stock No.	Description	Port Size BSPP	Max Press. Bar	LW mm	L1 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	M mm	SWØ mm	Wt Kg	List Price
RKHG14	2 Way Ball Valve	1/4”	400	6	36	35	43.5	32	8	13	M5	9	0.35	$ 403.00
RKHG38	2 Way Ball Valve	3/8”	400	10	43	42	49.5	38	8	16.5	M5	9	0.50	$ 506.00
RKHG12	2 Way Ball Valve	1/2”	400	13	48	45	51.5	40	8	17.5	M5	9	0.65	$ 554.00
RKHG34	2 Way Ball Valve	3/4”	400	20	62	60	73	57	12	24.5	M6	14	1.50	$ 772.00
RKHG100	2 Way Ball Valve	1”	400	24	66	65	79	63	12	28	M6	14	1.80	$ 1015.00





Ball Valve Handle Dimensions

(Included with all Ball Valves)

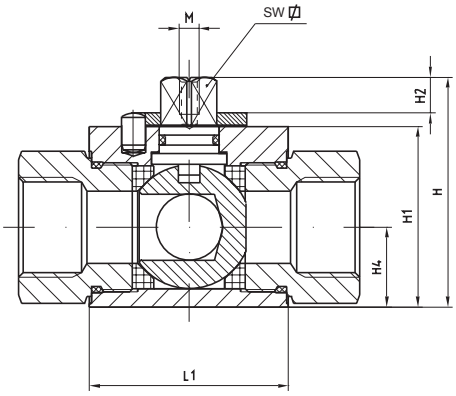


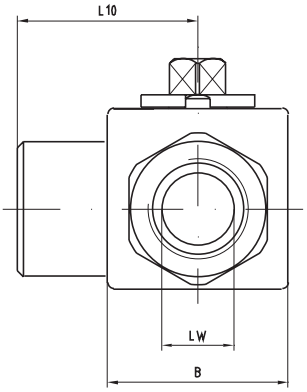
Bent Handle - Zinc Cast Alloy			
SW	H8	H9	K
9	8.7	36	107
12	12	65	165
14	12	65	165
17	14	55	211
19	14	60	211

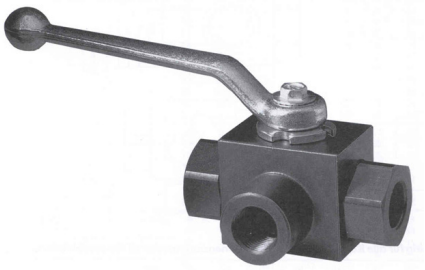
BK3/SK3 3 Way Ball Valves

3 Way High Pressure Ball Valves - Block Type Body - 'L' Configuration

Stock No.	Description	Port Size BSPP	Max Press. Bar	LW mm	L1 mm	L10 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	M mm	SW Ø mm	Wt Kg	List Price
BK318L	3 Way Ball Valve	1/8"	400	5	36	32	26	43.5	32	8	13	M5	9	0.40	$ 100.00
BK314L	3 Way Ball Valve	1/4"	400	6	36	32	26	43.5	32	8	13	M5	9	0.40	$ 104.00
BK338L	3 Way Ball Valve	3/8"	400	9	43	35	32	49	38	8	16.5	M5	9	0.55	$ 112.00
BK312L	3 Way Ball Valve	1/2"	400	11.5	48	37	35	51	40	8	17.5	M5	9	0.70	$ 120.00

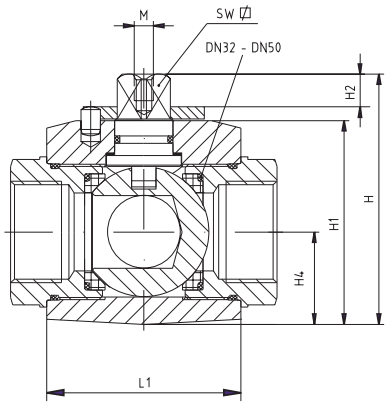


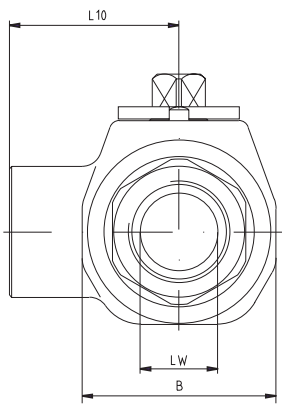


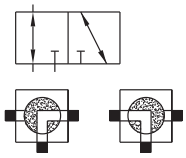


3 Way High Pressure Ball Valves - Forged Steel Body - 'L' Configuration

Stock No.	Description	Port Size BSPP	Max Press. Bar	LW mm	L1 mm	L10 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	M mm	SW Ø mm	Wt Kg	List Price
SK334L	3 Way Ball Valve	3/4"	350	18	61	47	49	73	57	12	24.5	M6	14	1.55	$ 194.00
SK3100L	3 Way Ball Valve	1"	350	22	65	55	60	76	60	12	26.5	M6	14	2.10	$ 268.00
SK3114L	3 Way Ball Valve	1-1/4"	350	30	80	70	76	104	84	13.5	38	M8	17	3.40	$ 918.00
SK3112L	3 Way Ball Valve	1-1/2"	350	35	85	72	83	111	92	13.5	41.5	M8	17	4.20	$ 1185.00
SK3200L	3 Way Ball Valve	2"	350	44	100	85	100	130	111	13.5	50	M8	19	6.10	$ 1530.00





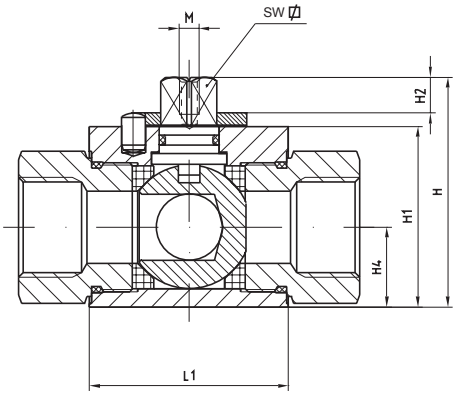


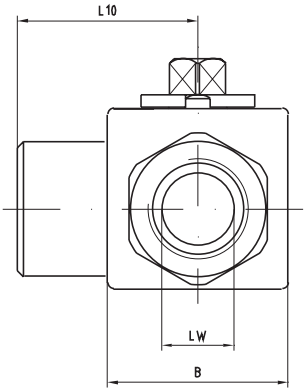
'L' Configuration

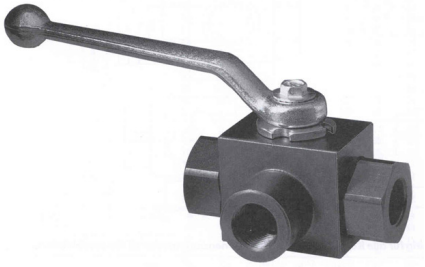
BK3/SK3 3 Way Ball Valves

3 Way High Pressure Ball Valves - Block Type Body - 'T' Configuration

Stock No.	Description	Port Size BSPP	Max Press. Bar	LW mm	L1 mm	L10 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	M mm	SWØ mm	Wt Kg	List Price
BK318T	3 Way Ball Valve	1/8"	400	5	36	32	26	43.5	32	8	13	M5	9	0.40	$100.00
BK314T	3 Way Ball Valve	1/4"	400	6	36	32	26	43.5	32	8	13	M5	9	0.40	$ 104.00
BK338T	3 Way Ball Valve	3/8"	400	9	43	35	32	49	38	8	16.5	M5	9	0.55	$ 112.00
BK312T	3 Way Ball Valve	1/2"	400	11.5	48	37	35	51	40	8	17.5	M5	9	0.70	$ 120.00

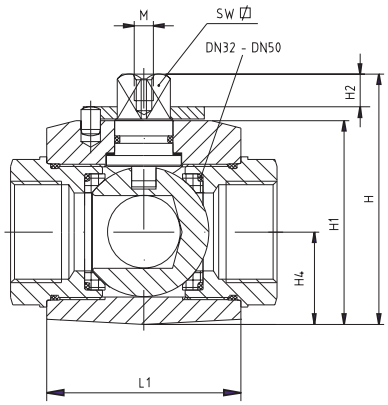


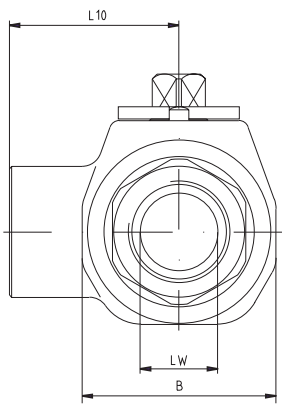


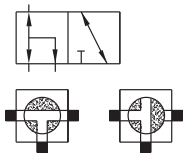


3 Way High Pressure Ball Valves - Forged Steel Body - 'T' Configuration

Stock No.	Description	Port Size BSPP	Max Press. Bar	LW mm	L1 mm	L10 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	M mm	SWØ mm	Wt Kg	List Price
SK334T	3 Way Ball Valve	3/4"	350	18	61	47	49	73	57	12	24.5	M6	14	1.55	$ 194.00
SK3100T	3 Way Ball Valve	1"	350	22	65	55	60	76	60	12	26.5	M6	14	2.10	$ 268.00
SK3114T	3 Way Ball Valve	1-1/4"	350	30	80	70	76	104	84	13.5	38	M8	17	3.40	$ 918.00
SK3112T	3 Way Ball Valve	1-1/2"	350	35	85	72	83	111	92	13.5	41.5	M8	17	4.20	$ 1185.00
SK3200T	3 Way Ball Valve	2"	350	44	100	85	100	130	111	13.5	50	M8	19	6.10	$ 1390.00







'T' Configuration

Notes

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Gear Boxes

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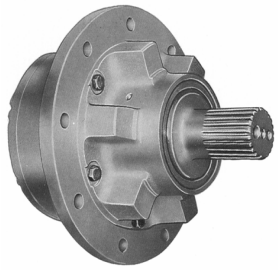
Auburn Gear	Model 6~7~8 Power Wheels	7.06
Auburn Gear	Model 8 Power Wheels	7.07
Auburn Gear	Model 9~10 Power Wheels	7.08
Hydr-App	RD~ML Gear Boxes	7.09
NERO	Gear Boxes	7.10
Hydr-App	1E10 Electro-Magnetic Clutch	7.11
OMT	SP Outrigger Bearings	7.11
Cross	ORB Outrigger Bearings	7.11
	Notes	7.12

MAKE	MODEL	PAGE

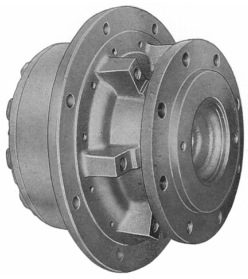
Power Wheel Product Summary

WHEEL DRIVES

SHAFT DRIVES



SPINDLE DRIVES



Model	Reduction	Maximum Intermittent Output Torque*	Nominal Ratio Range	Parking Brake Option
6 W	Single	22,000	3 - 5:1	✓
6 W	Double	50,000	13 - 32:1	✓
7 W	Double	70,000	13 - 32:1	✓
8 W	Double	100,000	14 - 49:1	✓
9 W	Double	130,000	14 - 39:1	✓
10 W	Double	180,000	16 - 51:1	✓
5 T	Single	22,000	3 - 6:1	✓
6 R	Single	30,000	3 - 6:1	✓
6 T	Single	30,000	3 - 6:1	✓
6 F	Single	30,000	3 - 6:1	✓
6 S	Double	50,000	14 - 33:1	✓
6 SW	Single	30,000	3 - 6:1	✓
6 SW	Double	50,000	14 - 33:1	✓
7 S	Double	70,000	14 - 33:1	✓
8 T	Single	60,000	3 - 7:1	✓
8 S	Double	100,000	15 - 50:1	✓
9 S	Double	130,000	15 - 40:1	✓
10 S	Double	180,000	17 - 52:1	✓
5 T-F	Single	22,000	3 - 6:1	✓
6 R-F	Single	30,000	3 - 6:1	✓
6 S-F	Double	50,000	14 - 33:1	✓
8 S-F	Double	100,000	15 - 50:1	✓
9 S-F	Double	130,000	15 - 50:1	✓
10 S-F	Double	180,000	17 - 52:1	✓

*Depending on the duty cycle and the nature of the application, a normal continuous output torque of 1/3 to 1/2 of the maximum intermittent should yield satisfactory *Power Wheel* life. Customer testing and application approval is strongly recommended.

Torque Ratings are shown in lb-in; to convert to Nm, multiply by 0.113.

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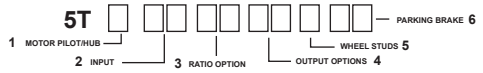
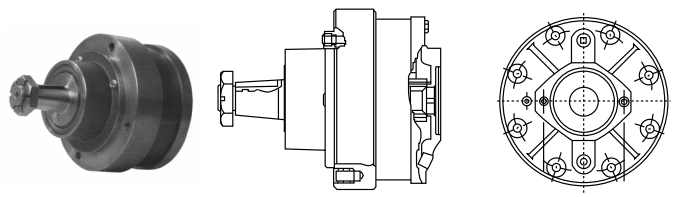
Model 5~6 Power Wheels

Model 5 Shaft And Spindle Output Single Reduction Drives with & without A2 Series Brake

Ref.	Options		Description	Make All Selections Within One Column: Non-Brake					Brake		Ordering Codes	List Price
1	Motor Pilot/Hub		**SAE A**	•	•	•			•		**5TA**	$ 2247.00
			A2	•	•	•					**5TA2**	-
			A4				•	•			5TA4	-
			A5	•	•	•				•	5TA5	-
			SAE B	•							**5TB**	$ 2247.00
2	Input Spline		**13T - 16/32**	•						•	**13**	-
			1" 6B		•		•		•		6B	-
			14T - 12/24			•		•	•		**14**	-
3	Ratio Options		3.75:1	•		•		•			03	$ 66.00
			4.50:1	•	•	•	•	•	•	•	**04**	-
			5.05:1	•	•	•	•	•	•	•	**05**	-
			5.81:1	•				•	•	•	06	$ 68.00
4	Output Shafts		1-3/4 J501 Taper	•	•	•	•	•	•	•	T1	$ 95.00
			17T - 12/24 Spline	•	•	•	•	•	•	•	**17**	-
			23T - 12/24 Spline	•	•	•	•	•	•	•	**23**	-
			23T - 12/24 Short	•	•	•	•	•	•	•	**23S**	-
			2.00 Keyed	•	•	•	•	•	•	•	**K1**	-
			1.75 Keyed	•	•	•	•	•	•	•	**K2**	-
			2.00 Hollow	•	•	•	•	•	•	•	**K3**	$ 95.00
			2.00 Keyed	•	•	•	•	•	•	•	K5	$ 95.00
			2.00 Round	•	•	•	•	•	•	•	**A1**	$ 95.00
			2.56 Round	•	•	•	•	•	•	•	**A2**	$ 95.00
			2.00 Hex	•	•	•	•	•	•	•	**H1**	$ 95.00
			Spindle	•	•	•	•	•	•	•	**F1**	$ 144.00
5	Wheel Studs		**1/2**	•	•	•	•	•	•	•	**4**	$ 39.00
			None	•	•	•	•	•	•	•	0	-
6	Parking Brake	Short Version	1540 lb-in						•	•	B1	$ 1559.00
			1800 lb-in						•	•	B2	$ 1559.00
			2400 lb-in						•	•	**B3**	$ 1559.00
		Long Version	**2400 lb-in**						•	•	**B4**	$ 1559.00
			3200 lb-in						•	•	**B5**	$ 1559.00
			3600 lb-in						•	•	**B6**	$ 1559.00
			4200 lb-in						•	•	**B7**	$ 1559.00

ORDERING INFORMATION





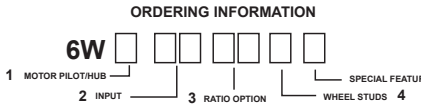
Model 6 Wheel Drive - Single Reduction

Ref.	Options	Description	Make All Selections Within One Column			Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•			**6WA**	$ 2822.00
		SAE B		•	•	**6WB**	$ 2822.00
2	Input Spline	**13T - 16/32**	•	•		**13**	-
		15T - 16/32			•	**15**	-
		1" - 6B	•			6B	-
3	Ratio Options	3.50:1	•	•	•	03	-
		4.05:1	•	•	•	**04**	-
		4.81:1	•	•	•	**05**	$ 60.00
4	Wheel Studs	**1/2 x 1.89**	•	•	•	**15**	$ 39.00
		1/2 x 2.50	•	•	•	**16**	$ 39.00
		9/16 x 2.06	•	•	•	**17**	$ 39.00
		9/16 x 2.75	•	•	•	**18**	$ 39.00
		5/8 x 2.36	•	•	•	**8**	$ 39.00
		NONE	•	•	•	**0**	-
5	Special Feature	Brake Disc Holes	•	•	•	DH	$ 296.00
		Boot Seal	•	•	•	**Z**	$ 41.00
		Cast Iron Cover	Std	Std	Std	**C**	-
		Quick Disconnect	•	•	•	**Q**	$ 231.00
		Oil Plugs/Spindle Side	•	•	•	**P**	$ 178.00
		High Strength Carrier	•	•	•	Y	$ 296.00

Model 6 Wheel Drive - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•		**6WA**	$ 3237.00
		A1	•		6WA1	
		AF	•		**6WAF**	
		SAE B		•	**6WB**	
		B1		•	6WB1	
		BF		•	**6WBF**	
2	Input Spline	**13T - 16/32**	•	•	**13**	-
		15T - 16/32		•	**15**	-
		1" - 6B	•		6B	-
3	Ratio Options	13.06:1	•	•	13	-
		15.88:1	•	•	**15**	-
		19.62:1	•	•	**19**	-
		21.74:1	•	•	**21**	-
		24.53:1	•	•	**24**	-
		28.37:1	•	•	**28**	-
		32.79:1	•	•	**32**	-
4	Wheel Studs	**1/2 x 1.89**	•	•	**15**	$ 39.00
		1/2 x 2.50	•	•	**16**	$ 39.00
		9/16 x 2.06	•	•	**17**	$ 39.00
		9/16 x 2.75	•	•	**18**	$ 39.00
		5/8 x 2.37	•	•	**8**	$ 39.00
		NONE	•	•	**0**	-
5	Special Feature	Brake Disc Holes	•	•	DH	$ 296.00
		Boot Seal	•	•	**Z**	$ 41.00
		Cast Iron Cover	Std	Std	**C**	-
		Quick Disconnect	•	•	**Q**	$ 231.00
		Oil Plugs/Spindle Side	•	•	**P**	$ 178.00
		High Strength Carrier	•	•	Y	$ 296.00

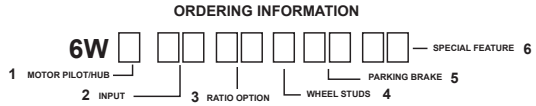
ORDERING INFORMATION



Model 6 Wheel Drive - Single Reduction With Brake

Ref.	Options		Description	Make All Selections Within One Column			Ordering Codes	List Price
1	Motor Pilot/Hub		SAE A	•			6WA	$ 4487.00
			SAE B		•	•	**6WB**	$ 4487.00
2	Input Spline		**13T - 16/32**	•	•		**13**	-
			14T - 12/24	•			14	-
			15T - 16/32			•	**15**	-
			1" - 6B	•			6B	-
3	Ratio Options		3.50:1	•	•	•	03	-
			4.05:1	•	•	•	**04**	-
			4.81:1	•	•	•	**05**	$ 68.00
4	Wheel Studs		**1/2 x 1.89**	•	•	•	**15**	$ 39.00
			1/2 x 2.50	•	•	•	**16**	$ 39.00
			9/16 x 2.06	•	•	•	**17**	$ 39.00
			9/16 x 2.75	•	•	•	**18**	$ 39.00
			5/8 x 2.36	•	•	•	**8**	$ 39.00
			None	•	•	•	**0**	-
5	Parking Brake	Short Version	**1540 lb-in**	•	•	•	**B1**	-
			1800 lb-in	•	•	•	**B2**	-
			2400 lb-in	•	•	•	B3	-
		Long Version	**2400 lb-in**	•	•	•	**B4**	-
			3200 lb-in	•	•	•	B5	-
			3600 lb-in	•	•	•	B6	-
			4200 lb-in	•	•	•	**B7**	-
6	Special Feature		Brake Disc Holes	•	•	•	DH	$ 296.00
			Quick Disconnect	•	•	•	**Q**	$ 231.00
			Oil Plugs/Spindle Side	•	•	•	**P**	$ 178.00
			Boot Seal	•	•	•	**Z**	$ 41.00
			High Strength Carrier	•	•	•	Y	$ 296.00

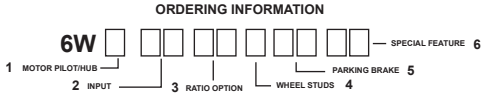
ORDERING INFORMATION



Model 6 Wheel Drive - Double Reduction With Brake

Ref.	Options		Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub		SAE A	•		6WA	
			SAE B		•	**6WB**	$ 4919.00
			B1		•	6WB1	
			BF		•	**6WBF**	
2	Input Spline		**13T - 16/32**	•	•	**13**	-
			14T - 12/24	•		14	-
			15T - 16/32		•	**15**	-
			1" - 6B	•		6B	-
3	Ratio Options		13.06:1	•	•	13	-
			15.88:1	•	•	**15**	-
			19.62:1	•	•	**19**	-
			21.74:1	•	•	**21**	-
			24.53:1	•	•	**24**	-
			28.37:1	•	•	**28**	-
			32.79:1	•	•	**32**	-
4	Wheel Studs		**1/2 x 1.89**	•	•	**15**	$ 39.00
			1/2 x 2.50	•	•	**16**	$ 39.00
			9/16 x 2.06	•	•	**17**	$ 39.00
			9/16 x 2.75	•	•	**18**	$ 39.00
			5/8 x 2.36	•	•	**8**	$ 39.00
			None	•	•	**0**	-
5	Parking Brake	Short Version	**1540 lb-in**	•	•	**B1**	-
			1800 lb-in	•	•	**B2**	-
			2400 lb-in	•	•	B3	-
		Long Version	**2400 lb-in**	•	•	**B4**	-
			3200 lb-in	•	•	B5	-
			3600 lb-in	•	•	B6	-
			4200 lb-in	•	•	**B7**	-
6	Special Feature		Brake Disc Holes	•	•	DH	$ 296.00
			Cast Iron Cover	Std	Std	**C**	-
			Quick Disconnect	•	•	**Q**	$ 231.00
			Oil Plugs/Spindle Side	•	•	**P**	$ 178.00
			Boot Seal	•	•	**Z**	$ 41.00
			High Strength Carrier	•	•	Y	$ 296.00

ORDERING INFORMATION



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OIL SOLUTIONS

Model 6 Power Wheels

Model 6 Shaft Output Drives - Single Reduction - Style 'T'

Ref.	Options	Description	Make All Selections Within One Column					Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•	•				**6TA**	$ 2613.00
		A2	•	•				**6TA2**	$ 2613.00
		A4			•			**6TA4**	$ 2613.00
		A5					•	6TA5	$ 2613.00
		SAE B						**6TB**	$ 2613.00
		SAE C				•		6TC	$ 2801.00
2	Input Spline	**13T - 16/32**	•					**13**	-
		1" - 6B		•			•	**6B**	-
		14T - 12/24		•	•	•		**14**	-
3	Ratio Options	**3.75:1**	•	•	•			**03**	$ 68.00
		4.50:1	•	•		•	•	**04**	-
		5.05:1	•	•		•		**05**	-
		5.81:1	•		•			06	$ 68.00
4	Output Options	**1-3/4 J501 Taper**	•	•	•	•	•	**T1**	-
		17T 12/24 Spline	•	•	•	•	•	**17**	-
		23T - 12/24 Spline	•	•	•	•	•	**23**	-
		23T - 12/24 Short	•	•	•	•	•	**23S**	-
		1.75 Keyed	•	•	•	•	•	**K1**	-
		2.0 Keyed	•	•	•	•	•	**K2**	-
		2.0 Hollow	•	•	•	•	•	**K3**	$ 125.00
		1.75 Hollow	•	•	•	•	•	**K4**	$ 125.00
		2.00 Keyed	•	•	•	•	•	**K5**	$ 90.00
		2.00 Round	•	•	•	•	•	**A1**	$ 116.00
		2.56 Round	•	•	•	•	•	**A2**	$ 90.00
		2.00 Hex	•	•	•	•	•	**H1**	$ 116.00
5	Special Features	Brake Disc Holes	•	•	•	•	•	DH	$ 296.00
		Oil Plugs/Output Side	•	•	•	•	•	P	$ 178.00
		High Strength Carrier	•	•	•	•	•	Y	$ 296.00

Model 6 Shaft Output Drives - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column				Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•	•			**6SA**	$ 3050.00
		A2	•	•			**6SA2**	$ 3050.00
		SAE B	•		•		**6SB**	$ 3050.00
		SAE C				•	6SC	$ 3164.00
2	Input Spline	**13T - 16/32**	•				**13**	-
		1" - 6B		•			**6B**	-
		14T - 12/24				•	14	-
		15T - 16/32			•		**15**	-
3	Ratio Options	14.06:1	•	•	•	•	14	-
		16.88:1	•	•	•		**16**	-
		20.62:1	•	•	•		**20**	-
		22.74:1	•	•	•	•	**22**	-
		25.53:1	•	•			**25**	-
		29.37:1	•			•	**29**	-
		33.79:1	•				**33**	-
4	Output Options	**1-3/4 J501 Taper**	•	•	•	•	**T1**	$ 90.00
		17T 12/24 Spline	•	•	•	•	**17**	-
		23T - 12/24 Spline	•	•	•	•	**23**	-
		23T - 12/24 Short	•	•	•	•	**23S**	-
		1.75 Keyed	•	•	•	•	**K1**	-
		2.0 Keyed	•	•	•	•	**K2**	-
		2.0 Hollow	•	•	•	•	**K3**	$ 125.00
		1.75 Hollow	•	•	•	•	**K4**	$ 125.00
		2.00 Keyed	•	•	•	•	**K5**	$ 90.00
		2.00 Round	•	•	•	•	**A1**	$ 125.00
		2.56 Round	•	•	•	•	**A2**	$ 90.00
		2.00 Hex	•	•	•	•	**H1**	$ 125.00
5	Special Features	Brake Disc Holes	•	•	•	•	DH	$ 296.00
		Oil Plugs/Output Side	•	•	•	•	P	$ 178.00
		High Strength Carrier	•	•	•	•	Y	$ 296.00

ORDERING INFORMATION

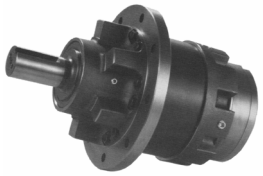
6T □ □□ □□ □ □ — SPECIAL FEATURE 5

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT OPTION 4

ORDERING INFORMATION

6S □ □□ □□ □ □ — SPECIAL FEATURE 5

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT OPTION 4



Model 6 Shaft Output Single Reduction Style 'T' With Brake

Ref.	Options		Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub		**SAE A**	•		**6TA**	
			AF	•		6TAF	$ 4138.00
			SAE B		•	**6TB**	
			BF		•	6TBF	
2	Input Spline		**13T - 16/32**	•	•	**13**	-
			1" - 6B	•		**6B**	-
			14T - 12/24	•		**14**	-
			15T - 16/32		•	15	-
3	Ratio Options		3.75:1			03	$ 68.00
			4.05:1	•	•	**04**	-
			5.05:1	•	•	**05**	-
			5.81:1	•	•	06	$ 68.00
4	Output Shaft Options		1-3/4 J501 Taper	•	•	T1	$ 95.00
			17T 12/24 Spline	•	•	17	-
			23T - 12/24 Spline	•	•	**23**	-
			23T - 12/24 Short	•	•	**23S**	-
			1.75 Keyed	•	•	K1	-
			2.00 Keyed	•	•	**K2**	-
			2.00 Hollow	•	•	K3	$ 125.00
			1.75 Hollow	•	•	K4	$ 125.00
			2.00 Keyed	•	•	K5	$ 90.00
			2.00 Round	•	•	**A1**	$ 116.00
			2.56 Round	•	•	**A2**	$ 90.00
			2.00 Hex	•	•	**H1**	$ 116.00
5	Parking Brake	Short Version	1540 lb-in	•	•	B1	-
			1800 lb-in	•	•	**B2**	-
			2400 lb-in	•	•	B3	-
		Long Version	**2400 lb-in**	•	•	**B4**	-
			3200 lb-in	•	•	**B5**	-
			3600 lb-in	•	•	B6	-
			4200 lb-in	•	•	**B7**	-
6	Special Feature		Oil Plugs/Spindle Side	•	•	P	$ 178.00
			High Strength Carrier	•	•	Y	$ 296.00

ORDERING INFORMATION

6T □ □□ □□ □ □ □□ — SPECIAL FEATURE 6

1 MOTOR PILOT/HUB — PARKING BRAKE 5

2 INPUT — 3 RATIO OPTION — OUTPUT SHAFT 4

Model 6 Shaft Output Double Reduction With Brake

Ref.	Options		Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub		**SAE A**	•		**6SA**	
			AF	•		6SAF	$ 4614.00
			SAE B		•	**6SB**	
			BF		•	6SBF	
2	Input Spline		**13T - 16/32**	•	•	**13**	-
			1" - 6B	•		**6B**	-
			14T - 12/24	•		**14**	-
			15T - 16/32		•	15	-
3	Ratio Options		14.06:1	•	•	14	-
			16.88:1	•	•	**16**	-
			20.62:1	•	•	**20**	-
			22.74:1	•	•	**22**	-
			25.53:1	•	•	**25**	-
			29.37:1	•	•	**29**	-
			33.79:1	•	•	**33**	-
4	Output Shaft Options		1-3/4 J501 Taper	•	•	T1	$ 95.00
			17T 12/24 Spline	•	•	17	-
			23T - 12/24 Spline	•	•	**23**	-
			23T - 12/24 Short	•	•	**23S**	-
			1.75 Keyed	•	•	K1	-
			2.00 Keyed	•	•	**K2**	-
			2.00 Hollow	•	•	K3	$ 125.00
			1.75 Hollow	•	•	K4	$ 125.00
			2.00 Keyed	•	•	K5	$ 90.00
			2.00 Round	•	•	**A1**	$ 116.00
			2.56 Round	•	•	**A2**	$ 90.00
			2.00 Hex	•	•	**H1**	$ 116.00
5	Parking Brake	Short Version	1540 lb-in	•	•	B1	-
			1800 lb-in	•	•	**B2**	-
			2400 lb-in	•	•	B3	-
		Long Version	**2400 lb-in**	•	•	**B4**	-
			3200 lb-in	•	•	**B5**	-
			3600 lb-in	•	•	B6	-
			4200 lb-in	•	•	**B7**	-
6	Special Feature		Oil Plugs/Spindle Side	•	•	P	$ 178.00
			High Strength Carrier	•	•	Y	$ 296.00

ORDERING INFORMATION

6S □ □□ □□ □ □ □□ — SPECIAL FEATURE 6

1 MOTOR PILOT/HUB — PARKING BRAKE 5

2 INPUT — 3 RATIO OPTION — OUTPUT SHAFT 4

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Model 6 Power Wheels

Model 6 Shaft Output Single Reduction Drives Style 'R'

Ref.	Options	Description	Make All Selections Within One Column					Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•	•				**6RA**	$ 2613.00
		A2	•	•				**6RA2**	$ 2613.00
		A4			•			**6RA4**	$ 2613.00
		A5					•	6RA5	$ 2613.00
		SAE B	•					**6RB**	$ 2613.00
		SAE C				•		6RC	$ 2801.00
2	Input Spline	**13T - 16/32**	•					**13**	-
		1" 6B		•			•	**6B**	-
		14T - 12/24		•	•	•		**14**	-
3	Ratio Options	3.75:1	•		•		•	03	$ 68.00
		4.50:1	•	•	•	•	•	**04**	-
		5.05:1	•	•	•		•	**05**	-
		5.81:1	•				•	06	$ 68.00
4	Output Shafts	1-3/4 J501 Taper	•	•	•	•	•	T1	$ 95.00
		17T - 12/24 Spline	•	•	•	•	•	**17**	-
		23T - 12/24 Spline	•	•	•	•	•	**23**	-
		23T - 12/24 Short	•	•	•	•	•	**23S**	-
		1.75 Keyed	•	•	•	•	•	K1	-
		2.00 Keyed	•	•	•	•	•	**K2**	-
		2.00 Hollow	•	•	•	•	•	K3	$ 125.00
		1.75 Round	•	•	•	•	•	K4	$ 125.00
		2.00 Keyed	•	•	•	•	•	K5	$ 90.00
		2.0 Dia w/Thru Hole	•	•	•	•	•	A1	$ 116.00

ORDERING INFORMATION

6R ☐ ☐☐ ☐☐ ☐☐ ☐☐

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SHAFTS 4

Model 6 Spindle Output Drives - Single Reduction

Ref.	Options	Description	Make All Selections Within One Column					Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•	•				**6TA**	$ 2770.00
		A2	•	•				6TA2	$ 2770.00
		A4			•			**6TA4**	$ 2770.00
		A5					•	6TA5	$ 2770.00
		SAE B	•					**6TB**	$ 2770.00
		SAE C				•		6TC	$ 2958.00
2	Input Spline	**13T - 16/32**	•					**13**	-
		1" 6B		•			•	**6B**	-
		14T - 12/24		•	•	•		**14**	-
3	Ratio Options	**3.75:1**	•	•	•			**03**	$ 68.00
		4.50:1	•	•		•	•	**04**	-
		5.05:1	•	•	•			**05**	-
		5.81:1	•		•			06	$ 68.00
4	Output Spindle	**F1**	•	•	•	•	•	**F1**	-
		F2	•	•	•	•	•	**F2**	-
		F3	•	•	•	•	•	**F3**	-
		F4	•	•	•	•	•	**F4**	-
		F5	•	•	•	•	•	F5	-
5	Wheel Studs	1/2"	•	•	•	•	•	4	$ 39.00
		9/16"	•	•	•	•	•	7	$ 39.00
		None	•	•	•	•	•	**0**	-
6	Special Features	Boot Seal -F2 Spindle Only	•	•	•	•	•	Z	$ 62.00
		Metal Seal Guard - F2 Spindle Only	•	•	•	•	•	G	$ 132.00

Model 6 Spindle Output Drives - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column				Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•	•			**6SA**	$ 3164.00
		A2	•	•			6SA2	$ 3164.00
		SAE B	•		•		**6SB**	$ 3164.00
		SAE C				•	6SC	$ 3352.00
2	Input Spline	**13T - 16/32**	•				**13**	-
		1" 6B		•			**6B**	-
		14T - 12/24				•	14	-
		15T - 16/32			•		15	-
3	Ratio Options	14.06:1	•	•	•	•	14	-
		16.88:1	•	•	•		**16**	-
		20.62:1	•	•	•		**20**	-
		22.74:1	•	•	•	•	**22**	-
		25.53:1	•	•			**25**	-
		29.37:1	•			•	**29**	-
		33.79:1	•				**33**	-
4	Output Spindle	**F1**	•	•	•	•	**F1**	-
		F2	•	•	•	•	**F2**	-
		F3	•	•	•	•	**F3**	-
		F4	•	•	•	•	**F4**	-
		F5	•	•	•	•	F5	-
5	Wheel Studs	1/2"	•	•	•	•	4	$ 39.00
		9/16"	•	•	•	•	7	$ 39.00
		None	•	•	•	•	**0**	-
6	Special Features	Boot Seal -F2 Spindle Only	•	•	•	•	Z	$ 62.00
		Metal Seal Guard - F2 Spindle Only	•	•	•	•	G	$ 132.00

ORDERING INFORMATION

6T/6S ☐ ☐☐ ☐☐ ☐☐☐ ☐☐

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SPINDLE 4 — WHEEL STUDS 5 — SPECIAL FEATURES 6

Model 6 Shaft Output Single Reduction Drives Style 'F'

Ref.	Options	Description	Make All Selections Within One Column					Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•	•				**6FA**	$ 2613.00
		A2	•	•				6FA2	$ 2613.00
		A4			•			**6FA4**	$ 2613.00
		A5					•	**6FA5**	$ 2613.00
		SAE B	•					**6FB**	$ 2613.00
		SAE C				•		6FC	$ 2801.00
2	Input Spline	**13T - 16/32**	•					**13**	-
		1" 6B		•			•	**6B**	-
		14T - 12/24		•	•	•		**14**	-
3	Ratio Options	**3.75:1**	•	•	•			**03**	$ 68.00
		4.50:1	•	•		•	•	**04**	-
		5.05:1	•	•	•			**05**	-
		5.81:1	•		•			06	$ 68.00
4	Output Shafts	1-3/4 J501 Taper	•	•	•	•	•	T1	$ 95.00
		17T - 12/24 Spline	•	•	•	•	•	17	-
		23T - 12/24 Spline	•	•	•	•	•	**23**	-
		23T - 12/24 Short	•	•	•	•	•	**23S**	-
		1.75 Keyed	•	•	•	•	•	K1	-
		2.00 Keyed	•	•	•	•	•	**K2**	-
		2.00 Hollow	•	•	•	•	•	K3	$ 125.00
		1.75 Hollow	•	•	•	•	•	K4	$ 125.00
		2.00 Keyed	•	•	•	•	•	K5	$ 90.00
		2.00 Round	•	•	•	•	•	**A1**	$ 116.00
		2.56 Round	•	•	•	•	•	**A2**	$ 90.00
		2.00 Hex	•	•	•	•	•	**H1**	$ 116.00
5	Output Spindle	**F1**	•	•	•	•	•	**F1**	-
		F2	•	•	•	•	•	**F2**	-
		F3	•	•	•	•	•	**F3**	-
		F4	•	•	•	•	•	**F4**	-
		F5	•	•	•	•	•	F5	-
6	Special Features	H.D. Multi-lip Seal	•	•	•	•	•	T	$ 62.00
		High Strength Carrier	•	•	•	•	•	Y	$ 296.00
7	Wheel Studs	1/2"	•	•	•	•	•	4	$ 39.00
		9/16"	•	•	•	•	•	7	$ 39.00
		None	•	•	•	•	•	**0**	-

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1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SHAFTS 4 — OUTPUT SPINDLE 5 — SPECIAL FEATURE 6 — WHEEL STUDS 7

Model 6 Spindle Output Single Reduction Style With Brake

Ref.	Options		Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub		**SAE A**	•		**6TA**	$ 4054.00
			AF	•		6TAF	
			SAE B		•	**6TB**	
			BF		•	6TBF	
2	Input Spline		**13T - 16/32**	•	•	**13**	-
			1" - 6B	•		**6B**	-
			14T - 12/24	•		**14**	-
			15T - 16/32		•	15	-
3	Ratio Options		3.75:1	•	•	03	$ 68.00
			4.05:1	•		**04**	-
			5.05:1	•		**05**	-
			5.81:1		•	06	$ 68.00
4	Output Spindle		**F1**	•	•	**F1**	-
			F2	•	•	**F2**	-
			F3	•	•	**F3**	-
			F4	•	•	**F4**	-
			F5	•	•	F5	-
5	Wheel Studs		1/2"	•	•	4	$ 39.00
			9/16"	•	•	7	$ 39.00
			None	•	•	**0**	-
6	Parking Brake	Short Version	1540 lb-in	•	•	B1	-
			1800 lb-in	•	•	**B2**	-
			2400 lb-in	•	•	B3	-
		Long Version	**2400 lb-in**	•	•	**B4**	-
			3200 lb-in	•	•	**B5**	-
			3600 lb-in	•	•	B6	-
			4200 lb-in	•	•	**B7**	-

ORDERING INFORMATION

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1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SPINDLE 4 — WHEEL STUDS 5 — PARKING BRAKE 6

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Model 6~7~8 Power Wheels

Model 6 Spindle Output Double Reduction Style With Brake

Ref.	Options		Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub		**SAE A** AF **SAE B** BF	• • 	 • •	**6SA** 6SAF **6SB** 6SBF	$ 4648.00
2	Input Spline		**13T - 16/32** **1" - 6B** **14T - 12/24** 15T - 16/32	• • • 	• •	**13** **6B** **14** 15	- - - -
3	Ratio Options		14.06:1 **16.88:1** **20.62:1** **22.74:1** **25.53:1** **29.37:1** **33.79:1**	 • • • • • •	 • • • • • •	14 **16** **20** **22** **25** **29** **33**	- - - - - - -
4	Output Spindle		**F1** **F2** **F3** **F4** F5	• • • • •	• • • • •	**F1** **F2** **F3** **F4** F5	- - - - -
5	Wheel Studs		1/2" 9/16" **None**	• • •	• • •	4 7 **0**	$ 39.00 $ 39.00 -
6	Parking Brake	Short Version	1540 lb-in **1800 lb-in** 2400 lb-in	• • •	• • •	B1 **B2** B3	- - -
		Long Version	**2400 lb-in** **3200 lb-in** 3600 lb-in **4200 lb-in**	• • • •	• • • •	**B4** **B5** B6 **B7**	- - - -

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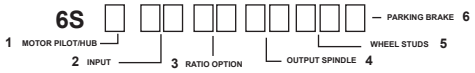


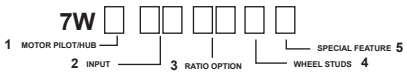
Model 7 Wheel Drive - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE B** B1 **B2** BF BF1 SAE C	• • • • • 	 •	**7WB** 7WB1 **7WB2** 7WBF 7WBF1 7WC	$ 4877.00
2	Input Spline	**13T - 16/32** 14T - 12/24 **15T - 16/32**	• •	 • 	**13** 14 **15**	- - -
3	Ratio Options	13.06:1 15.88:1 17.94:1 **19.62:1** **21.74:1** **24.53:1** **28.37:1** **32.79:1**	• • • • • • • •	• • • • • • • •	13 15 17 **19** **21** **24** **28** **32**	- - - - - - - -
4	Wheel Studs	1/2 x 2.50 **9/16 x 2.75** **5/8 x 2.37** **NONE**	• • • •	• • • •	5 **7** 8 **0**	$ 39.00 $ 39.00 $ 39.00 -
5	Special Feature	**Boot Seal** Quick Disconnect Oil Plugs / Spindle Side	• • •	• • •	**Z** Q P	$ 41.00 $ 232.00 $ 186.00

Model 7 Shaft Output - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A2** **SAE B** SAE C	• •	 • 	**7SA2** **7SB** 7SC	$ 4284.00
2	Input Spline	**13T - 16/32** **14T - 12/24**	 •	• 	**13** **14**	- -
3	Ratio Options	14.06:1 16.88:1 18.94:1 **20.62:1** **22.74:1** **23.53:1** **29.37:1** **33.79:1**	• • • • • • • •	• • • • • • • •	14 16 18 **20** **22** **25** **29** **33**	- - - - - - - -
4	Output Shafts	**3.00" Keyed** **23T - 8/16**	• •	• •	**K2** **23**	- -

ORDERING INFORMATION



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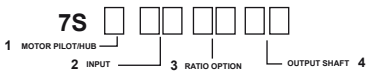
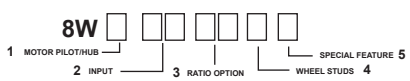


Model 8 Wheel Drive - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE B** **B1** B4 B5 **SAE C** C4 **C5**	• • • • 	 • • •	**8WB** **8WB1** 8WB4 8WB5 **8WC** 8WC4 **8WC5**	$ 6024.00
2	Input Spline	**13T - 16/32** **14T - 12/24** 15T - 16/32	• • •	 • 	**13** **14** 15	- - -
3	Ratio Options	14.39:1 17.83:1 **22.59:1** 25.71:1 **30.50:1** **34.20:1** **41.42:1** 49.00:1	• • • • • • • •	• • • • • • • •	14 17 **22** 25 **30** **34** **41** 49	$ 144.00 - - - - - - -
4	Wheel Studs	1/2 x 2.50 9/16 x 2.75 **5/8 x 2.37** **3/4 x 3.21** **NONE**	• • • • •	• • • • •	5 7 **8** **11** **0**	$ 39.00 $ 39.00 $ 39.00 $39.00 -
5	Special Feature	**Boot Seal** Brake Disc Holes **Quick Disconnect** Oil Plugs / Spindle Side High Strength Carrier	• • • • •	• • • • •	**Z** DH **Q** P Y	$ 41.00 $ 296.00 $ 232.00 $ 248.00 $ 296.00

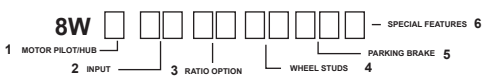
ORDERING INFORMATION

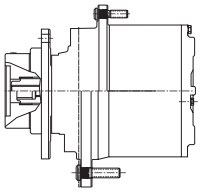


Model 8 Wheel Drive - Double Reduction with Brake

Ref.	Options		Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub		**SAE B** B1 B4 B5 B6 SAE C C4 C5	• • • • • 	 • • •	**8WB** 8WB1 8WB4 8WB5 8WB6 8WC 8WC4 8WC5	$ 7974.00
2	Input Spline		**13T - 16/32** 14T - 12/24 15T - 16/32	• •	 • 	**13** **14** 15	- - -
3	Ratio Options		14.39:1 17.83:1 **22.59:1** 25.71:1 **30.50:1** **34.20:1** **41.42:1** 49.00:1	• • • • • • • •	• • • • • • • •	14 17 **22** 25 **30** **34** **41** 49	$ 144.00 - - - - - - -
4	Wheel Studs		1/2 x 2.50 9/16 x 2.75 **5/8 x 2.37** **3/4 x 3.21** **NONE**	• • • • •	• • • • •	5 7 **8** **11** **0**	$ 39.00 $ 39.00 $ 39.00 $ 39.00 -
5	Parking Brake	Short Version	1540 lb-in 1800 lb-in 2400 lb-in	• • •	• • •	B1 B2 B3	- - -
		Long Version	**2400 lb-in** **3200 lb-in** 3600 lb-in **4200 lb-in**	• • • •	• • • •	**B4** **B5** **B6** **B7**	- - - -
6	Special Feature		**Boot Seal** Brake Disc Holes **Quick Disconnect** Oil Plugs / Spindle Side High Strength Carrier	• • • • •	• • • • •	**Z** DH **Q** P Y	$ 41.00 $ 296.00 $ 232.00 $ 248.00 $ 296.00

ORDERING INFORMATION





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Model 8 Power Wheels

Model 8 Shaft Output Drive - Single Reduction

Ref.	Options	Description	Make All Selections Within One Column			Ordering Codes	List Price
1	Motor Pilot/Hub	SAE A	•			8TA	
		A1	•			8TA1	
		SAE C	•		•	**8TC**	$ 4763.00
		C1	•		•	8TC1	
		SAE D		•		8TD	
		D1		•		8TD1	
2	Input Spline	13T - 8/16		•		13	-
		14T - 12/24	•			**14**	-
		21T - 16/32			•	15	-
3	Ratio Options	3.92:1	•			03	-
		4.86:1	•			04	-
		5.50:1	•			05	-
		6.00:1	•	•		06	-
		7.07:1	•		•	07	-
4	Output Shafts	**23T - 12/24**	•			**23**	-
		2.00 Keyed	•			**K1**	-
		3.00 Keyed	•			K2	-
		20T - 8/16	•			**20**	-
		23T - 8/16	•			23S	-
		23T - 8/16	•			**23L**	-
		2.00 Round	•			**A1**	-
		2.56 Round	•			**A2**	-
		2.00 Hex	•			**H1**	-
		2.00 Hex	•			H2	-
		Spindle	•			F2	-
		Spindle	•			F3	-

Model 8 Shaft Output Drive - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column			Ordering Codes	List Price
1	Motor Pilot/Hub	SAE A	•			8SA	
		A1	•			8SA1	
		SAE B		•		**8SB**	$ 5273.00
		B1		•		8SB11	
		SAE C			•	**8SC**	
		C1			•	8SC1	
2	Input Spline	**13T - 8/16**		•		**13**	-
		14T - 12/24	•		•	**14**	-
3	Ratio Options	15.39:1	•	•	•	15	-
		18.83:1	•	•	•	18	-
		23.59:1	•	•	•	**23**	-
		26.71:1	•	•	•	26	-
		31.50:1	•	•	•	**31**	-
		35.20:1	•	•	•	**35**	-
		42.42:1	•	•	•	**42**	-
		50.00:1	•	•	•	50	-
4	Output Shafts	**23T - 12/24**	•			**23**	-
		2.00 Keyed	•			**K1**	-
		3.00 Keyed	•			K2	-
		20T - 8/16	•			**20**	-
		23T - 8/16	•			23S	-
		23T - 8/16	•			**23L**	-
		2.00 Round	•			**A1**	-
		2.56 Round	•			**A2**	-
		2.00 Hex	•			**H1**	-
		2.00 Hex	•			H2	-
		Spindle	•			F2	-
		Spindle	•			F3	-

ORDERING INFORMATION

8T/8S □ □□ □□ □ □□

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SHAFT 4

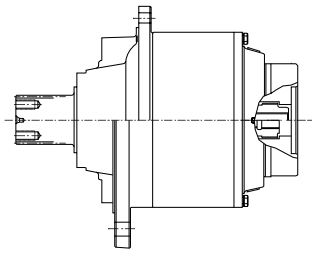
Model 8 Shaft Output Drive - Double Reduction with Brake

Ref.	Options		Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub		**SAE B**	•		8SB	
			SAE B1	•		8SB1	$ 7415.00
			SAE C		•	8SC	
			SAE C1		•	8SC1	
2	Input Spline		**13T - 8/16**	•		**13**	
			14T - 12/24		•	**14**	
3	Ratio Options		15.39:1	•	•	15	$ 144.00
			18.83:1	•	•	18	-
			23.59:1	•	•	**23**	-
			26.71:1	•	•	26	-
			31.50:1	•	•	**31**	-
			35.20:1	•	•	**35**	-
			42.42:1	•	•	**42**	-
			50.00:1	•	•	50	-
4	Output Shafts		**23T - 12/24**	•		**23**	-
			2.00 Keyed	•		**K1**	-
			3.00 Keyed	•		K2	-
			20T - 8/16	•		**20**	-
			23T - 8/16	•		23S	-
			23T - 8/16	•		**23L**	-
			2.00 Round	•		A1	-
			2.56 Round	•		A2	-
			2.00 Hex	•		**H1**	-
			2.00 Hex	•		H2	-
			Spindle	•		F2	-
			Spindle	•		F3	-
5	Parking Brake	Short Version	1540 lb-in	•		B1	-
			1800 lb-in	•		B2	-
			2400 lb-in	•		B3	-
		Long Version	**2400 lb-in**	•	•	**B4**	-
			3200 lb-in	•		**B5**	-
			3600 lb-in	•	•	**B6**	-
			4200 lb-in	•	•	**B7**	-

ORDERING INFORMATION

8S □ □□ □□ □ □

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SHAFT 4 — PARKING BRAKE 5



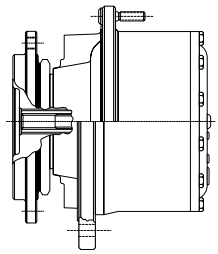
Model 8 Series B Wheel Drives - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE B**	•		**8W2B**	
		B3	•		8W2B3	
		B5	•		**8W2B5**	
		SAE C		•	8W2C	$ 6262.00
		C2		•	**8W2C2**	
		C5		•	**8W2C5**	
		C6		•	8W2C6	
2	Input Spline	**13T - 16/32**	•		**13**	-
		14T - 12/24		•	**14**	-
		15T - 16/32	•		**15**	-
3	Ratio Options	14.39:1	•	•	14	-
		17.83:1	•	•	17	-
		22.59:1	•	•	**22**	-
		25.71:1	•	•	25	-
		30.50:1	•	•	**30**	-
		34.20:1	•	•	**34**	-
		37.89:1	•	•	**37**	-
		41.42:1	•	•	**41**	-
		49.00:1	•	•	**49**	-
4	Wheel Studs	1/2 x 2.50	•	•	5	$ 39.00
		9/16 x 2.75	•	•	**7**	$ 39.00
		5/8 x 2.37	•	•	**8**	$ 39.00
		3/4 x 3.21	•	•	**11**	$ 39.00
		None	•	•	**0**	-
5	Special Features	**Boot Seal**	•	•	**Z**	$ 41.00
		Brake Disc Holes	•	•	DH	$ 296.00
		Quick Disconnect	•	•	Q	$ 232.00
		Oil Plugs/Spindle Side	•	•	P	$ 248.00
		High Strength Carrier	•	•	Y	$ 296.00

ORDERING INFORMATION

8W2 □ □□ □□ □ □

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — WHEEL STUDS 4 — SPECIAL FEATURE 5



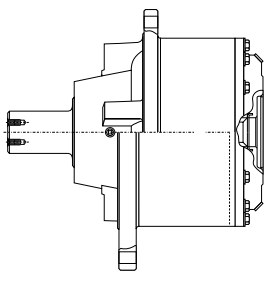
Model 8 Series B Shaft Output Drive - Double Reduction

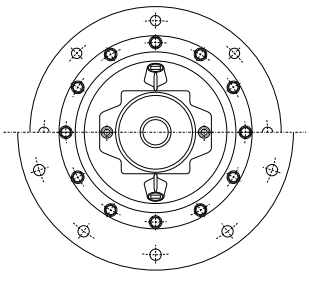
Ref.	Options	Description	Make All Selections Within One Column				Ordering Codes	List Price
1	Motor Pilot/Hub	SAE A	•				8S2A	
		A1	•				**8S2A1**	
		SAE B		•			**8S2B**	$ 7415.00
		B1		•			8S2B1	
		SAE C			•		**8S2C**	
		C1			•		8S2C1	
2	Input Spline	**13T - 8/16**		•			**13**	-
		14T - 12/24	•		•		**14**	-
3	Ratio Options	15.39:1	•	•	•	•	15	-
		18.83:1	•	•	•	•	18	-
		23.59:1	•	•	•	•	**23**	-
		26.71:1	•	•	•	•	26	-
		31.50:1	•	•	•	•	**31**	-
		35.20:1	•	•	•	•	**35**	-
		42.42:1	•	•	•	•	**42**	-
		50.00:1	•	•	•	•	**50**	-
4	Output Shafts	**2.50 Hex**	•	•	•	•	**H1**	$ 346.00
		3.00 Keyed	•	•	•	•	**K2**	-
		20T - 8/16	•	•	•	•	**20**	-
		23T - 8/16	•	•	•	•	**23S**	-
		23T - 8/16	•	•	•	•	**23L**	-

ORDERING INFORMATION

8S2 □ □□ □□ □□

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SHAFTS 4





Model 9~10 Power Wheels

Model 9 Wheel Drives - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column		Ordering Codes	List Price
1	Motor Pilot/Hub	B1	•		9WB1	
		B2	•		9WB2	
		B3	•		9WB3	$ 9063.00
		C1		•	9WC1	
		C2		•	9WC2	
		C3		•	9WC3	
2	Input Spline	**13T - 16/32**	•		**13**	-
		14T - 12/24		•	**14**	-
		21T - 16/32		•	**21**	-
3	Ratio Options	14.39:1	•	•	14	-
		17.83:1	•	•	17	-
		22.59:1	•	•	22	-
		25.71:1	•	•	25	-
		30.50:1	•	•	30	-
		34.20:1	•	•	34	-
		41.42:1	•	•	41	-
		49.00:1	•	•	49	-
4	Wheel Studs	**5/8 x 2.37**	•	•	**8**	$ 39.00
		3/4 x 3.21	•	•	**11**	$ 39.00
		None	•	•	**0**	-
5	Special Features	**Boot Seal**	•	•	**Z**	$ 41.00
		Brake Disc Holes	•	•	**DH**	$ 296.00
		Quick Disconnect	•	•	**Q**	$ 232.00
		Oil Plugs/Spindle Side	•	•	**P**	$ 296.00

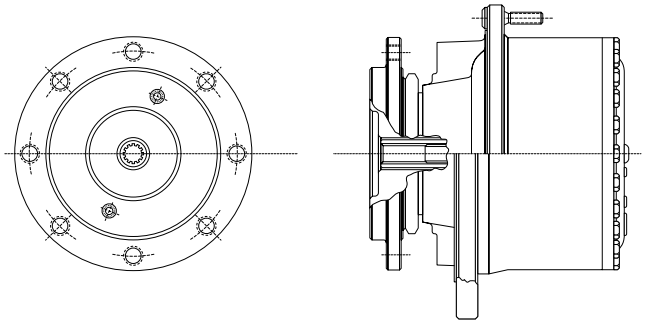
Model 9 Shaft Output Drives - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column				Ordering Codes	List Price
1	Motor Pilot/Hub	A1	•				9SA1	
		A2	•				9SA2	
		B1		•			9SB1	$ 7744.00
		B2		•			**9SB2**	
		C1			•		**9SC1**	
		C2			•		**9SC2**	
2	Input Spline	**13T - 16/32**		•			**13**	-
		14T - 12/24	•		•		**14**	-
3	Ratio Options	15.39:1	•	•	•	•	15	-
		18.83:1	•	•	•	•	18	-
		23.59:1	•	•	•	•	**23**	-
		26.71:1	•	•	•	•	**26**	-
		31.50:1	•	•	•	•	**31**	-
		35.20:1	•	•	•	•	**35**	-
		42.42:1	•	•	•	•	42	-
		50.00:1	•	•	•	•	**50**	-
4	Output Shafts	**2.50 Hex**	•	•	•	•	**H1**	-
		2.625 Hex	•	•	•	•	**H2**	-
		3.00 Keyed	•	•	•	•	K2	-
		20T - 8/16	•	•	•	•	**20**	-
		23T - 8/16	•	•	•	•	23S	-
		23T - 8/16	•	•	•	•	**23L**	-

ORDERING INFORMATION

9W □ □□ □□ □ □

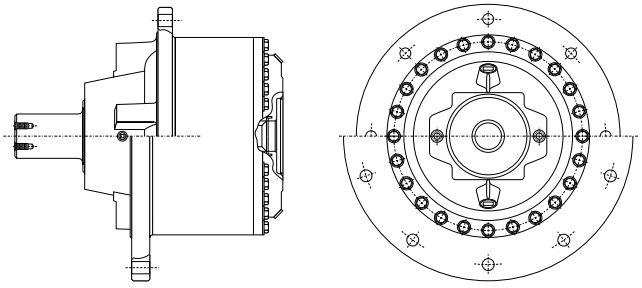
1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — WHEEL STUDS 4 — SPECIAL FEATURE 5



ORDERING INFORMATION

9S □ □□ □□ □ □

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SHAFT 4



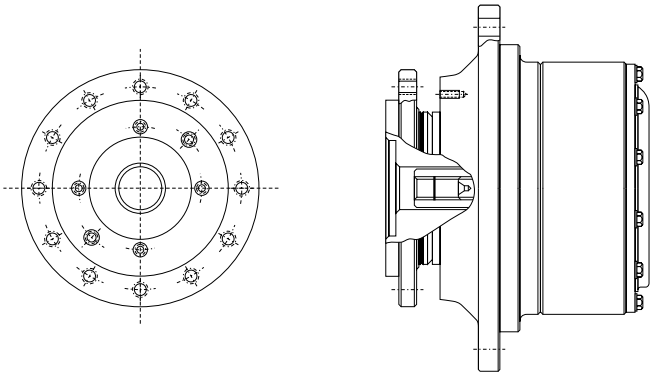
Model 10 Series B Wheel Drives - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column	Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE C**	•	**0W3C**	$ 14,170.00
2	Input Spline	**14T - 12/24**	•	**14**	-
3	Ratio Options	16.79:1	•	16	-
		19.93:1	•	19	-
		26.18:1	•	26	-
		36.82:1	•	**36**	-
		44.58:1	•	**44**	-
		51.35:1	•	**51**	-
4	Wheel Studs	**None**	•	**0**	-
		3/4 x 3.21	•	**11**	$ 92.00
5	Special Features	Brake Disc Holes	•	DH	$ 296.00
		Boot Seal	•	**Z**	$ 76.00
		Quick Disconnect	•	Q	$ 232.00
		Pipe Plugs/Spindle Side	•	P	$ 309.00
		High Strength Carrier	•	Y	$ 309.00

ORDERING INFORMATION

0W □ □□ □□ □ □

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — WHEEL STUDS 4 — SPECIAL FEATURE 5



Model 10 Series B Shaft Output Drives - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column			Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•			**0S3A**	
		A1	•			**0S3A1**	
		A2	•			**0S3A2**	
		SAE B		•		**0S3B**	$ 12,357.00
		SAE C			•	**0S3C**	
		C1			•	**0S3C1**	
		C2			•	**0S3C2**	
2	Input Spline	**13T - 16/32**		•		**13**	-
		14T - 12/24	•		•	**14**	-
3	Ratio Options	**17.79:1**	•	•	•	**17**	-
		20.93:1	•	•	•	**20**	-
		27.18:1	•	•	•	**27**	-
		37.82:1	•	•	•	**37**	-
		45.58:1	•	•	•	**45**	-
		52.35:1	•	•	•	**52**	-
4	Output Shafts	**20T - 8/16**	•	•	•	**20**	-
		23T - 8/16	•	•	•	**23**	-
		3.75 Keyed	•	•	•	**K2**	-
5	Special Features	**High Strength Carrier**	•	•	•	**Y**	$ 309.00

Model 10 Series B Spindle Output Drives - Double Reduction

Ref.	Options	Description	Make All Selections Within One Column			Ordering Codes	List Price
1	Motor Pilot/Hub	**SAE A**	•			**0S3A**	
		A1	•			**0S3A1**	
		A2	•			**0S3A2**	
		SAE B		•		**0S3B**	$ 13,264.00
		SAE C			•	**0S3C**	
		C1			•	**0S3C1**	
		C2			•	**0S3C2**	
2	Input Spline	**13T - 16/32**		•		**13**	-
		14T - 12/24	•		•	**14**	-
3	Ratio Options	**17.79:1**	•	•	•	**17**	-
		20.93:1	•	•	•	**20**	-
		27.18:1	•	•	•	**27**	-
		37.82:1	•	•	•	**37**	-
		45.58:1	•	•	•	**45**	-
		52.35:1	•	•	•	**52**	-
4	Output Spindle	**Spindle Tapped Holes**	•	•	•	**F1**	-
5	Special Features	**Boot Seal**	•	•	•	**Z**	$ 76.00
		High Strength Carrier	•	•	•	**Y**	$ 309.00
		Metal Guard	•	•	•	**G**	$ 309.00

ORDERING INFORMATION

0S □ □□ □□ □ □

1 MOTOR PILOT/HUB — 2 INPUT — 3 RATIO OPTION — OUTPUT SPINDLE 4 — SPECIAL FEATURE 5

OIL SOLUTIONS
1800-OILSOL
1800-645765
https://oilsolutions.com.au/
sales@oilsolutions.com.au

RD~ML Gear Boxes

Hydr-App PTO Speed Increaser Gear Boxes

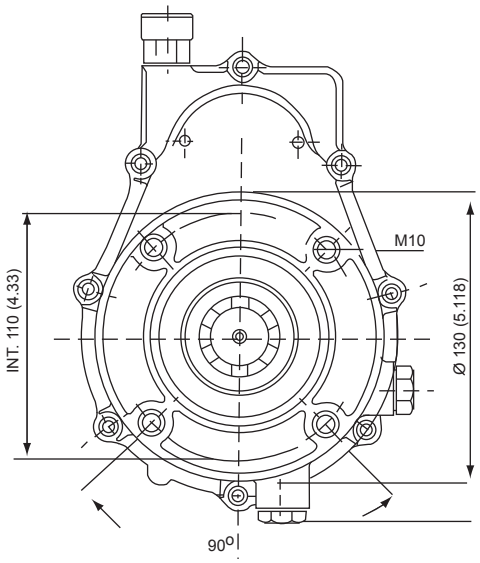
Stock No.	Description	Fits Pump Type	Input Type	Size	No. of Teeth	Step-Up Ratio	List Price
RD33A	RD33/SAE2/-1/0,33Y Gear Box	SAE 'A'	Female	1-3/8"	6T	3.1:1	$ 777.00
ML321	ML32/GRP2 Gear Box c/w 31000700	DIN GRP2	Male	1-3/8"	6T	3.1:1	$ 546.00
ML322	ML32/GRP2 Gear Box c/w 31000700	DIN GRP 2	Female	1-3/8"	6T	3.1:1	$ 522.00
RD52B	RD52/SAE'B'-7-1/0,33-16 Gear Box c/w 31025700	SAE 'B'	Female	1-3/8"	6T	3.0:1	$ 1099.00
ML521	ML52/GRP3 Gear Box c/w 31003500	DIN GRP3	Male	1-3/8"	6T	3.0:1	$ 712.00
ML522	ML52/GRP3 Gear Box c/w 31003500	DIN GRP3	Female	1-3/8"	6T	3.0:1	$ 712.00
ML52218	ML522-21T Gear Box c/w 31003500	DIN GRP3	Female	1-3/8"	21T	2.0:1	$ 955.00

Adaptor Flanges

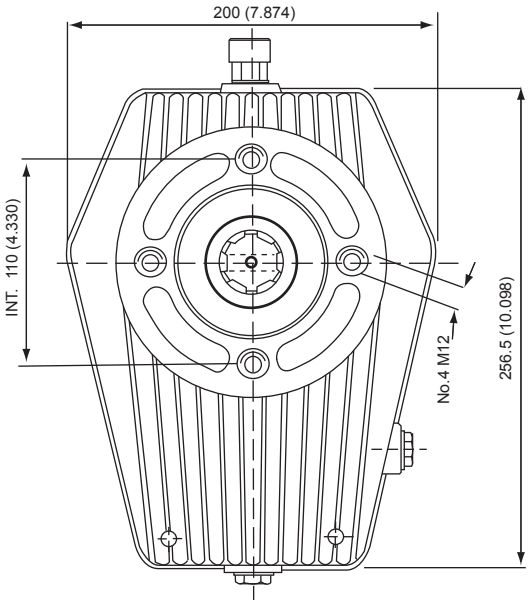
Stock No.	Description	Fits Gear Box	Adapts To:	List Price
14040004	Adaptor Flange Kit	ML52*GRP3	SAE 'A'	$ 278.00
14040006	Adaptor Flange Kit	ML52*GRP3	SAE 'B'	$ 278.00

Splined Adaptors

Stock No.	Description	Fits Gear Box	Adapts	Size	List Price
31000700	Splined Adaptor	ML32 Gear Box	GRP2	1:8 Taper	$ 26.00
31001000	Splined Adaptor	SPU1C Outrigger	GRP1	1:8 Taper	$ 26.00
31001900	Splined Adaptor	SPR2 Outrigger	GRP2	1:8 Taper	$ 32.00
31003500	Splined Adaptor	ML52 & SP3U	GRP3	1:8 Taper	$ 32.00
31003700	Splined Adaptor	1E10 Electro Magnetic Clutch	GRP1	1:8 Taper	$ 41.00
31003900	Splined Adaptor	1E10 & ML52	GRP2	1:8 Taper	$ 32.00
31004400	Splined Adaptor	ML52 Gear Box	SAE 'B'	7/8" x 13T	$ 99.00
31025700	Splined Adaptor	RD52B	SAE 'B'	7/8" Straight	$ 99.00
31002000	GRP2 4mm Key	SPR2	GRP2	1:8 Taper	$ 32.00
31000800	GRP2 4mm Key	ML32	GRP2	1:8 Taper	$ 26.00



ML32



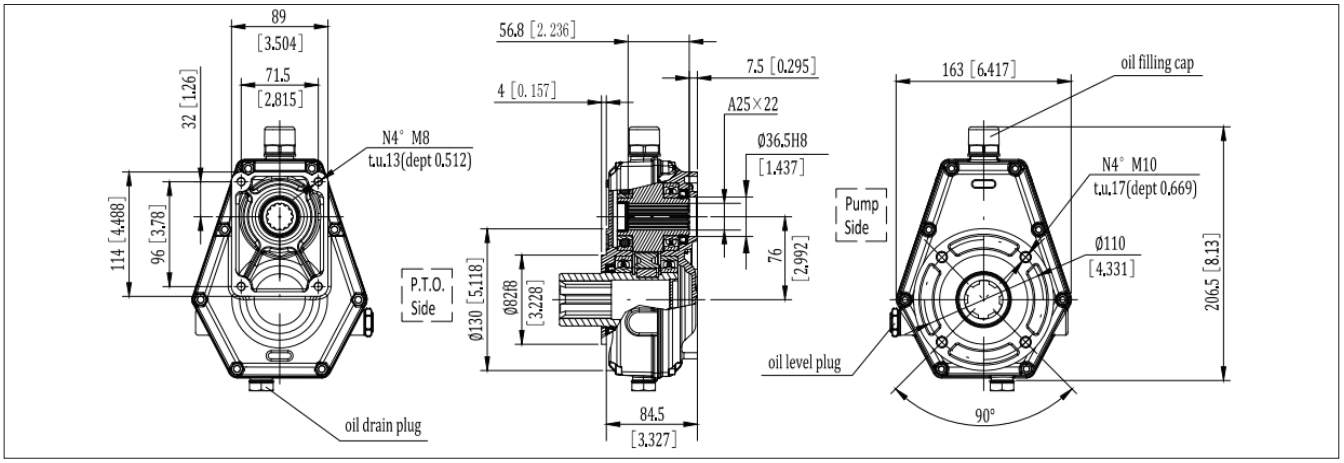
ML52

Gear Boxes

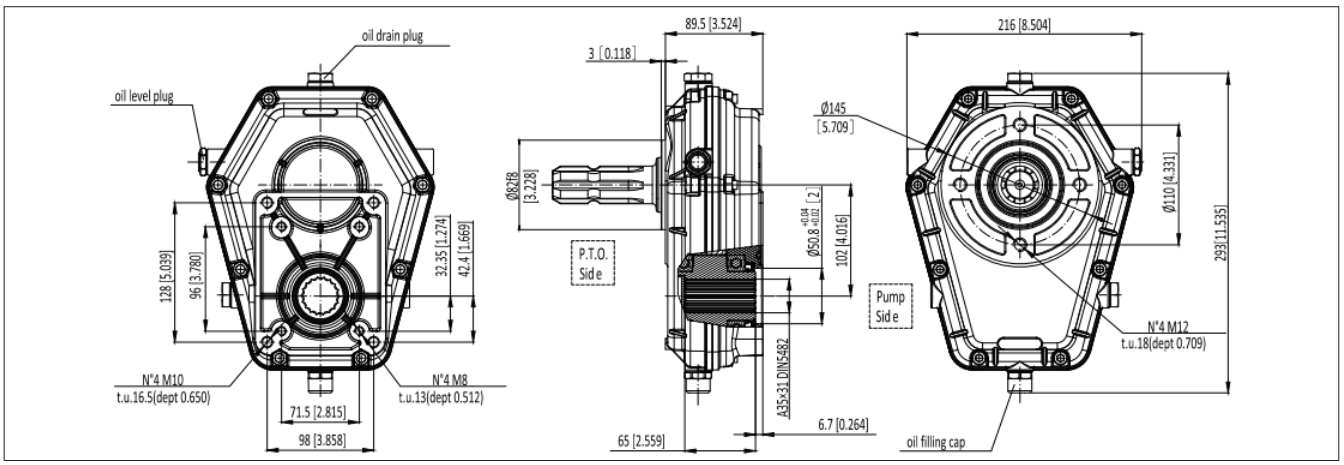
NERO PTO Speed Increaser Gear Boxes

Stock No.	Description	Fits Pump Type	Input Type	Size	No. of Teeth	Step-Up Ratio	List Price
KM60024C	KM/GRP2 Gear Box c/w 31000700	DIN GRP2	Female	1-3/8”	6T	3.1:1	$ 522.00
KM70024C	KM/GRP3 Gear Box c/w 31003500	DIN GRP3	Female	1-3/8”	6T	3.0:1	$ 712.00
KM71024C	KM52/GRP3 Gear Box c/w 31003500	DIN GRP3	Female	1-3/8”	6T	3.0:1	$ 712.00

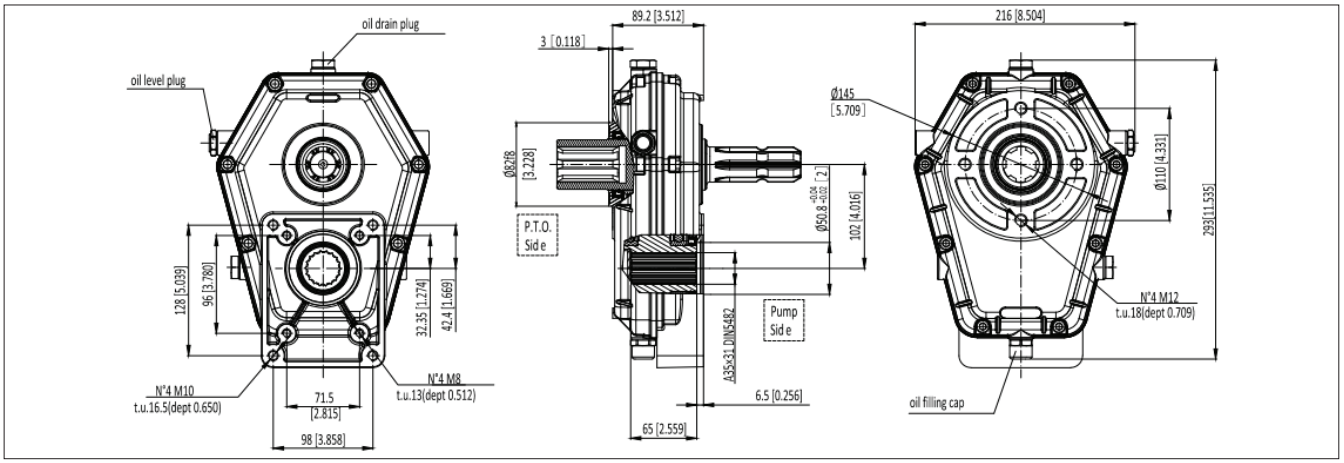
KM600 Series



KM700 Series



KM710 Series



1E10 Electro-Magnetic Clutch

Electro-Magnetic Clutch

Stock No.	Description	Voltage	Fits Pump Type	List Price
IE102312V	Electro-Magnetic Clutch	12V DC	GRP2 & GRP3 DIN	$ 1264.00
IE102324V	Electro-Magnetic Clutch	24V DC	GRP2 & GRP3 DIN	$ 1264.00

SP Outrigger Bearings

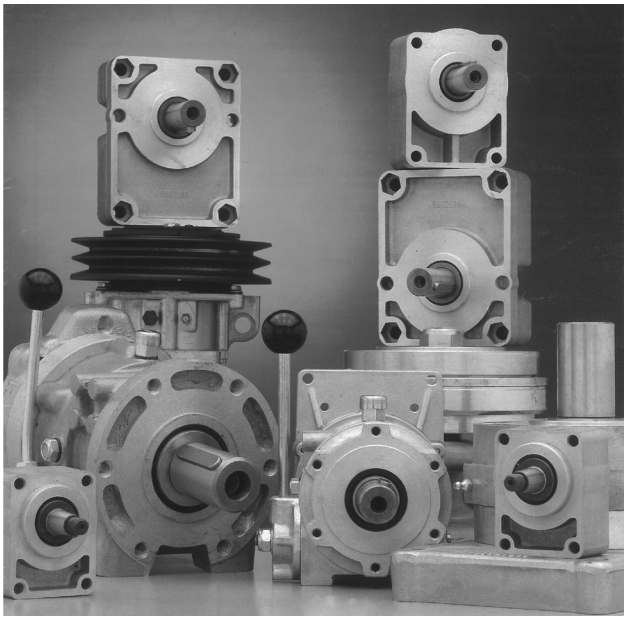
OMT Outrigger Bearing Assemblies (Over Hung Load Adaptors)

Stock No.	Description	Mount	Input	Output	List Price
SPU1P	Outrigger Bearing Assembly	DIN GRP1	1:8 Taper	18 mm Parallel	$ 307.00
SPR2	Outrigger Bearing Assembly	DIN GRP2	1:8 Taper	22 mm Parallel	$ 307.00
SP3U	Outrigger Bearing Assembly	DIN GRP3	1:8 Taper	24 mm Parallel	$ 491.00

ORB Outrigger Bearings

Cross Outrigger Bearing Assemblies (Over Hung Load Adaptors)

Stock No.	Description	Mount	Input	Output	List Price
ORB40	Outrigger Bearing Assembly	SAE 'A' 2B	5/8" Keyed	1" Parallel	$ 350.00
ORB41	Outrigger Bearing Assembly	SAE 'A' 2B	3/4" Keyed	1" Parallel	$ 350.00
ORB42	Outrigger Bearing Assembly	SAE 'A' 2B	1" Keyed	1" Parallel	$ 350.00
ORB50	Outrigger Bearing Assembly	SAE 'B' 2B	7/8" Keyed	1-1/2" Parallel	$ 620.00



Notes

Section 8

Aluminium Gear Pumps & Motors

MAKE	MODEL	PAGE
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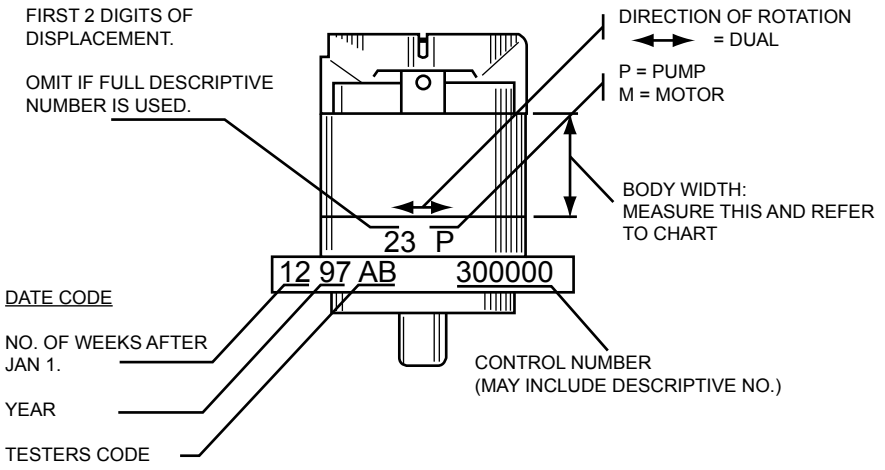
Cross	40 Series Gear Pumps	8.03
Cross	50 Series Gear Pumps	8.04
Cross	60 Series Gear Pumps	8.05
Bucher	AP05 Gear Pumps	8.06
Galtech	1SPA Gear Pumps	8.07
Galtech	1SPA Gear Pumps	8.08
Galtech	1SPA Gear Pumps	8.09
Galtech	HC2P Gear Pumps	8.10
Galtech	HC2P Gear Pumps	8.11
Galtech	2SPA Gear Pumps	8.12
Galtech	3GPG Gear Pumps	8.13
Galtech	3GPG Gear Pumps	8.14
Galtech	HC Multiple Gear Pumps	8.15
Marzocchi	K1PS G Gear Pumps	8.16
Marzocchi	1P Gear Pumps	8.17
Marzocchi	ALP1 Gear Pumps	8.18
Marzocchi	GHP1 Gear Pumps	8.19
Marzocchi	ALP2 Gear Pumps	8.20
Marzocchi	GHP2A3 Gear Pumps	8.21
Marzocchi	ALP3 Gear Pumps	8.22
Marzocchi	GHP3A Gear Pumps	8.23
Marzocchi	ALP4 Gear Pumps	8.24
Marzocchi	ALP4E Gear Pumps	8.25
Marzocchi	ALP1 Modular Gear Pumps	8.26
Marzocchi	ALP2 Modular Gear Pumps	8.27
Marzocchi	ALP3 Modular Gear Pumps	8.28
Marzocchi	ALPA4 Modular Gear Pumps	8.29
Marzocchi	ALPA4 Modular Gear Pumps	8.30
Salami	15PE Pumps G18P0 & P18P0	8.31
Salami	15PE Pumps R80S0 & R83S1	8.32
Salami	15PE Pumps G59R, P59R, R59R	8.33
Salami	15PE Pumps G59R, P59R, R59R	8.34
Salami	2PE Pumps G28P1 & P28P1	8.35
Salami	2PE Pumps R82S2 & R85S2	8.36
Salami	2PE Pumps R52S2 & R54S2	8.37
Salami	2PE Pumps P60R & G60R	8.38
Salami	2PE Pumps B25B1	8.39
Salami	25PE Pumps G38P2 & P38P2	8.40
Salami	25PE Pumps G87S3 & R87S3	8.41
Salami	25PE Pumps G55S3 & R55S3	8.42
Salami	25PE Pumps G54S2 & R54S2	8.43
Salami	25PE Pumps P64R, G64R & R64R	8.44
Salami	25PE Pumps P64R, G64R & R64R	8.45
Salami	3PE Pumps G38P2 & P38P2	8.46
Salami	3PE Pumps G87S3 & R87S3	8.47
Salami	3PE Pumps G55S3 & R55S3	8.48
Salami	3PE Pumps P65R,G65R & R65R	8.49
Salami	3PE Pumps P65R,G65R & R65R	8.50
Marzocchi	ALP1HL Hi-Low Pumps	8.51
Salami	2PEHL Hi-Low Pumps	8.52
Cross	Hi-Low Pumps	8.53
MTE	Hi-Low Pumps	8.54
MTE	Hi-Low Pumps	8.55
Galtech	1SMA Reversible Motors	8.56
Galtech	2SMG Reversible Motors	8.57
Galtech	2SMG Reversible Motors	8.58
Galtech	2SMG Reversible Motors	8.59
Galtech	3SMG Reversible Motors	8.60
Marzocchi	ALM1 Reversible Motors	8.61
Marzocchi	ALM1A Reversible Motors	8.62
Marzocchi	ALM2AEO Reversible Pumps/ Motors	8.63
Salami	2ME Reversible Motors R28P1G & R82S2G	8.64
Salami	2ME Reversible Motors R28P1G & R82S2G	8.65
Salami	25ME Reversible Motors R38P2, R87S3 & R87S2	8.66
Salami	25ME Reversible Motors R38P2, R87S3 & R87S2	8.67
Salami	3ME Reversible Motors G38P2, R87S3 & R88S3	8.68
Salami	3ME Reversible Motors G38P2, R87S3 & R88S3	8.69
Prince	HC-PTO Driven Gear Pumps	8.70

Identification & Performance Data

Field Identification:

Direction of rotation is marked on the unit. Stock number is a 6 digit starting with 3..... (date code and partial description noted as below) stamped on the flange.

Measure width of body or gears if unable to read computer stock number.



Model	Gear Width	Body Width
40P005	0.372”	0.779”
40P007	0.558”	0.965”
40P010	0.744”	1.151”
40P012	0.930”	1.337”
40P015	1.116”	1.523”
40P018	1.339”	1.746”
50P015	0.675”	1.082”
50P019	0.867”	1.274”
50P023	1.031”	1.438”
50P027	1.218”	1.625”
50P033	1.467”	1.874”
50P038	1.689”	2.096”
50P052	2.311”	2.718”
60P040	1.015”	1.518”
60P051	1.280”	1.783”
60P061	1.545”	2.048”
60P071	1.795”	2.298”
60P081	2.045”	2.548”
60P092	2.325”	2.828”

PERFORMANCE DATA - PUMPS: GPM/RPM						PERFORMANCE DATA - MOTORS: RPM/GPM						
RPM	1000	1500	2000	2500	3000	GPM	5	10	15	20	30	50
MODEL	GPM	GPM	GPM	GPM	GPM	MODEL	RPM	RPM	RPM	RPM	RPM	RPM
40P005 40P007	1.7 2.8	2.6 4.1	3.5 5.5	4.3 6.9	5.2 8.3	40M005 40M007	1732 1155	2310				
40P010 40P012	3.7 4.9	6.5 7.3	7.4 9.7	9.2 12.1	11.0 14.6	40M010 40M012	866 693	1732 1386	2599 2079			
40P015 40P018	5.8 7.0	8.8 10.5	11.7 14.0	14.6 17.5	17.5	40M015 40M018	577 481	1155 962	1732 1443	2310 1925	2887	
50P015 50P019	5.9 7.6	8.8 11.4	11.8 15.2	14.6 19.0	17.8 22.8	50M015 50M019	684 533	1368 1066	2052 1599	2736 2132		
50P023 50P027	9.0 10.7	13.6 16.0	18.1 21.4	22.6 26.7	27.1 32.0	50M023 50M027	448 379	896 759	1344 1138	1792 1518	2688 2276	
50P033 50P038 50P052	12.9 14.8 20.3	19.3 22.2 30.4	25.7 29.6 40.6	32.1 37.0	38.6	50M033 50M038 50M052	315 274 199	630 547 400	945 821 600	1260 1094 800	1890 1641 1199	2736 1999
60P040 60P051	15.8 20.1	23.7 30.1	31.6 40.1	39.4 50.2	47.3 60.2	60M040 60M051	257 202	513 404	770 606	1027 807	1540 1211	2567 2018
60P061 60P071	24.0 27.9	36.0 41.8	47.9 55.7	59.9 69.6	71.8 83.6	60M061 60M071	169	338 291	507 436	676 582	1014 872	1690 1454
60P081 60P092	31.8 36.0	47.6 54.1	63.5 72.1	79.4 901		60M081 60M092		255 225	383 337	510 450	765 674	1275 1124

Note: Above performance figures are approximate and are based on 2000 psi operating pressure. Operation on shaded areas is not recommended. Maximum speeds achievable using largest stepped port sizes. Refer to Green Catalogue page 1.02 for Pump Speed vs Port Size Limitations.

40 Series Gear Pumps

SAE ‘A’ 2 Bolt Mount - 5/8” Dia. Straight Keyed Shaft

Stock No.	Model Code	Displacement		Max. Pressure		Port Size		List Price
		cu. in/rev	cc/rev	bar	psi	inlet	outlet	
360001	40PH05DACSC	0.50	8.2	207	3000	1-1/16” UNO	1-1/16” UNO	$ 771.00
360004	40PH07DACSC	0.75	12.3					$ 818.00
360005	40PH10DACSC	1.00	16.4					$ 849.00
360006	40PH12DACSC	1.25	20.5					$ 892.00
360028	40PH15DACSC	1.50	24.6					$ 959.00
360003	40PH18DACSC	1.80	29.5					$ 1096.00

SAE ‘A’ 2 Bolt Mount - 5/8” Dia. 9 Tooth Splined Shaft

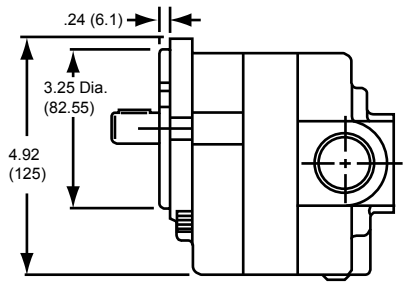
Stock No.	Model Code	Displacement		Max. Pressure		Port Size		List Price
		cu. in/rev	cc/rev	bar	psi	inlet	outlet	
360042	40PH05DAASC	0.50	8.2	207	3000	1-1/16” UNO	1-1/16” UNO	$ 771.00
360043	40PH07DAASC	0.75	12.3					$ 818.00
360047	40PH10DAASC	1.00	16.4					$ 849.00
360044	40PH12DAASC	1.25	20.5					$ 892.00
360045	40PH15DAASC	1.50	24.6					$ 959.00
360046	40PH18DAASC	1.80	29.5					$ 1096.00

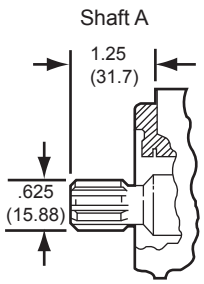
SAE ‘A’ 2 Bolt Mount - 3/4” Dia. Straight Keyed Shaft

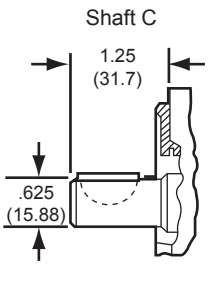
Stock No.	Model Code	Displacement		Max. Pressure		Port Size		List Price
		cu. in/rev	cc/rev	bar	psi	inlet	outlet	
360187	40PH05DAKSC	0.50	8.2	207	3000	1-1/16” UNO	1-1/16” UNO	$ 771.00
360160	40PH07DAKSC	0.75	12.3					$ 818.00
360161	40PH10DAKSC	1.00	16.4					$ 849.00
360162	40PH12DAKSC	1.25	20.5					$ 892.00
360163	40PH15DAKSC	1.50	24.6					$ 959.00
360183	40PH18DAKSC	1.80	29.5					$ 1096.00

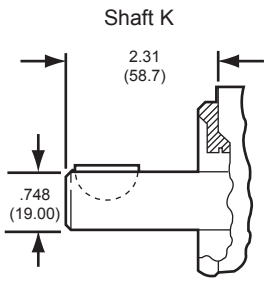
Porting Options (Optional Rear Cover) - Addition To List Price

Model Code	Stock No.	Description	Inlet	Outlet	List Price
SA	4P0007-003ADD	Side Ports	1-5/16” UNO	1-1/16” UNO	$ 23.00
RB	4P0007-001ADD	Rear Ports	1-5/16” UNO	1-1/16” UNO	$ 49.00
RD	4P0007-002ADD	Rear Ports	1-1/16” UNO	1-1/16” UNO	$ 49.00









50 Series Gear Pumps

SAE ‘B’ 2 Bolt Mount - 7/8” Dia. Straight Keyed Shaft

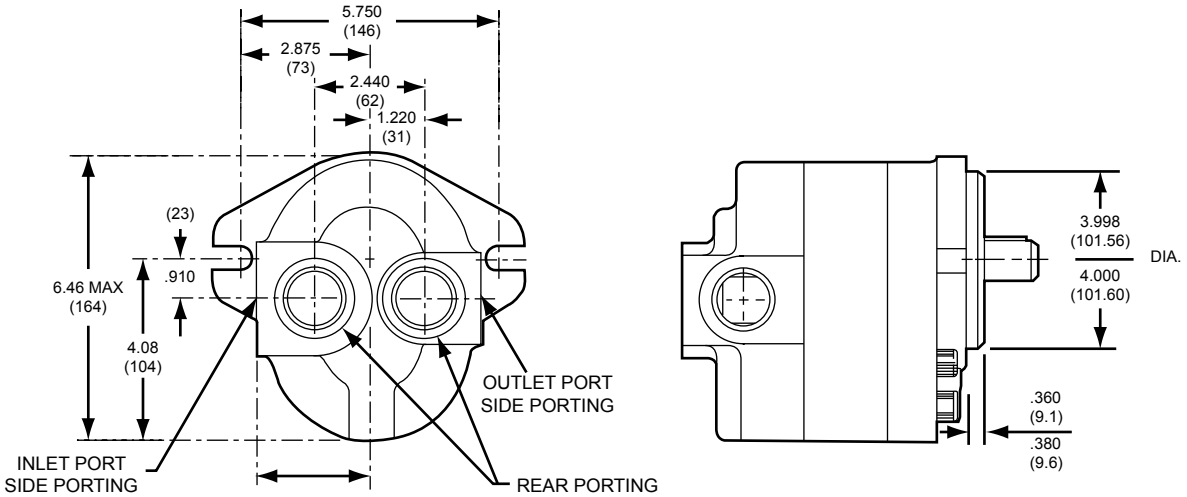
Stock No.	Model Code	Displacement		Max. Pressure		Port Size		List Price
		cu. in/rev	cc/rev	bar	psi	inlet	outlet	
300043	50PH15DBCSC	1.52	24.9	207	3000	1-5/16” UNO	1-5/16” UNO	$ 1385.00
300022	50PH19DBCSC	1.95	32.0					$ 1424.00
300006	50PH23DBCSC	2.32	38.0					$ 1443.00
300044	50PH27DBCSC	2.74	44.9					$ 1560.00
300045	50PH33DBCSC	3.36	54.1					$ 1586.00
300007	50PH38DBCSC	3.80	62.3					$ 1638.00
300445	50PH52DBCSC	5.20	85.2					$ 2048.00

SAE ‘B’ 2 Bolt Mount - 7/8” Dia. 13 Tooth Splined Shaft

Stock No.	Model Code	Displacement		Max. Pressure		Port Size		List Price
		cu. in/rev	cc/rev	bar	psi	inlet	outlet	
300116	50PH15DBASC	1.52	24.9	207	3000	1-5/16” UNO	1-5/16” UNO	$ 1385.00
300107	50PH19DBASC	1.95	32.0					$ 1424.00
300135	50PH23DBASC	2.32	38.0					$ 1443.00
300108	50PH27DBASC	2.74	44.9					$ 1560.00
300098	50PH33DBASC	3.36	54.1					$ 1586.00
300099	50PH38DBASC	3.80	62.3					$ 1638.00
300428	50PH52DBASC	5.20	85.2					$ 2048.00

Porting Options (Optional Rear Cover) - Addition To List Price

Model Code	Stock No.	Description	Inlet	Outlet	List Price
SA	5P0007-015ADD	Side Ports	1-7/8” UNO	1-5/16” UNO	$ 45.00
SB	5P0007-012ADD	Side Ports	1-/5/8” UNO	1-5/16” UNO	$ 45.00
RD	5P0007-019ADD	Rear Ports	1-7/8” UNO	1-5/16” UNO	$ 62.00
RE	5P0007-016ADD	Rear Ports	1-/5/8” UNO	1-5/16” UNO	$ 62.00
RF	5P0007-008ADD	Rear Ports	1-5/16” UNO	1-5/16” UNO	$ 62.00



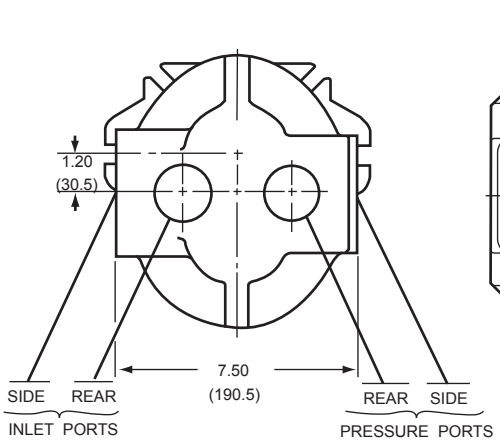
60 Series Gear Pumps

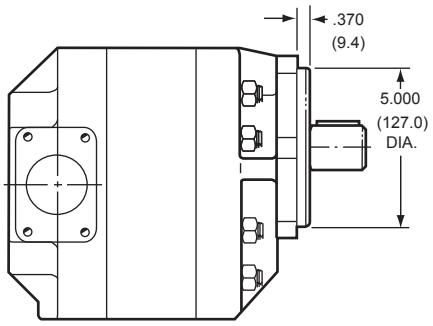
SAE ‘C’ 2 Bolt Mount - 1-1/4” Dia. Straight Keyed Shaft

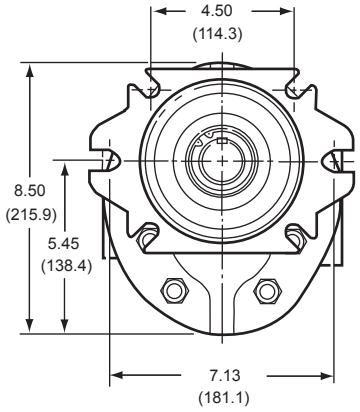
Stock No.	Model Code	Displacement		Max. Pressure		Port Size		List Price
		cu. in/rev	cc/rev	bar	psi	inlet	outlet	
330012	60PB61DCCSF	6.15	100.8	207	3000	1-7/8” UNO	1-7/8” UNO	$ 3809.00
330005	60PB71DCCSF	7.15	117.2					$ 3907.00
330009	60PB81DCCSF	8.15	133.6					$ 3959.00
330010	60PB92DCCSF	9.25	151.6					$ 4400.00

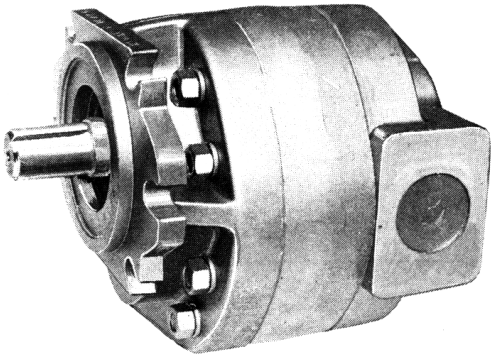
SAE ‘C’ 2 Bolt Mount - 1-1/4” Dia. 14 Tooth Splined Shaft

Stock No.	Model Code	Displacement		Max. Pressure		Port Size		List Price
		cu. in/rev	cc/rev	bar	psi	inlet	outlet	
330029	60PB61DCASF	6.15	100.8	207	3000	1-7/8” UNO	1-7/8” UNO	$ 3809.00
330030	60PB71DCASF	7.15	117.2					$ 3907.00
330055	60PB81DCASF	8.15	133.6					$ 3959.00
330044	60PB92DCASF	9.25	151.6					$ 4400.00







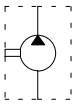


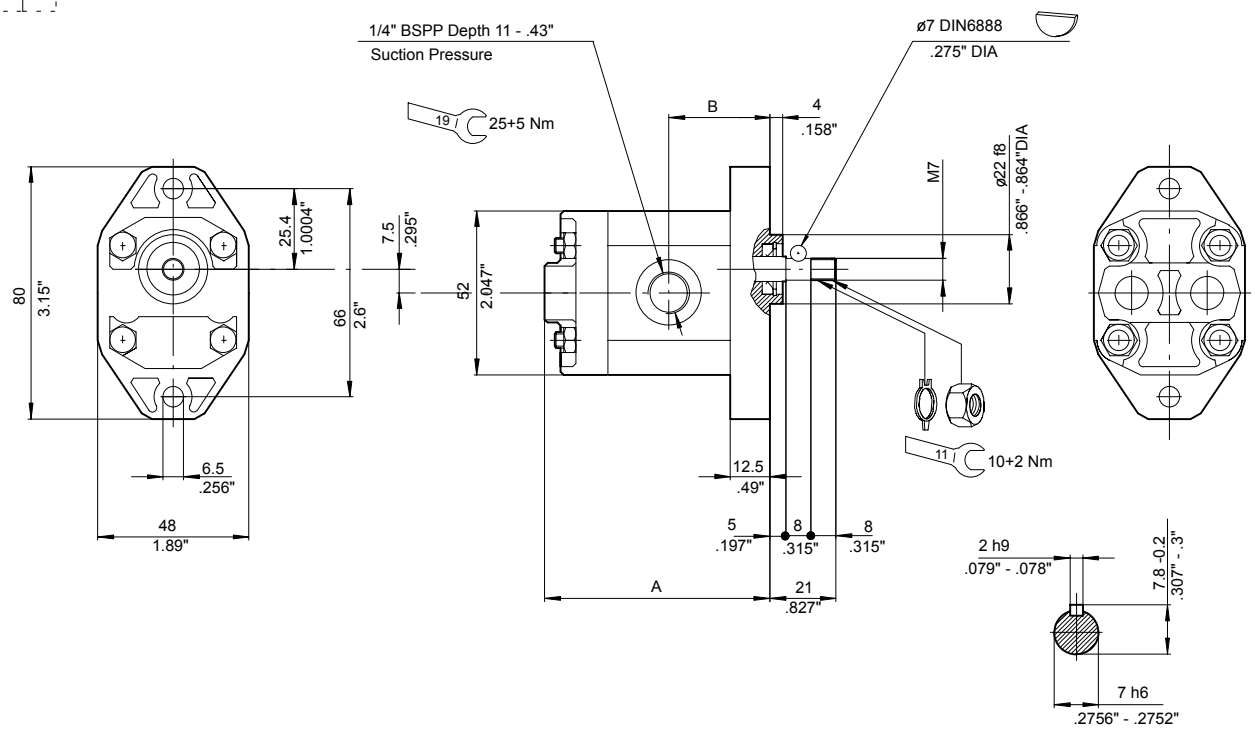
AP05 Gear Pumps

DIN Group 05 - 2 Bolt Mount - Parallel Shaft

Stock No.	Model Code	Displacement	Dimension mm		Port Size		List Price
		cc/rev	A	B	Inlet	Outlet	
100261204	AP05/0.25D810	0.25	64.5	29.0	1/4" BSPP	1/4" BSPP	$ 317.00
100361202	AP05/0.5D810	0.50	67.0	30.5			$ 317.00
100461202	AP05/0.75D810	0.75	69.0	31.5			$ 317.00
100561202	AP05/0.9D810	0.90	70.5	32.0			$ 317.00

Group **AP05** Code **810**





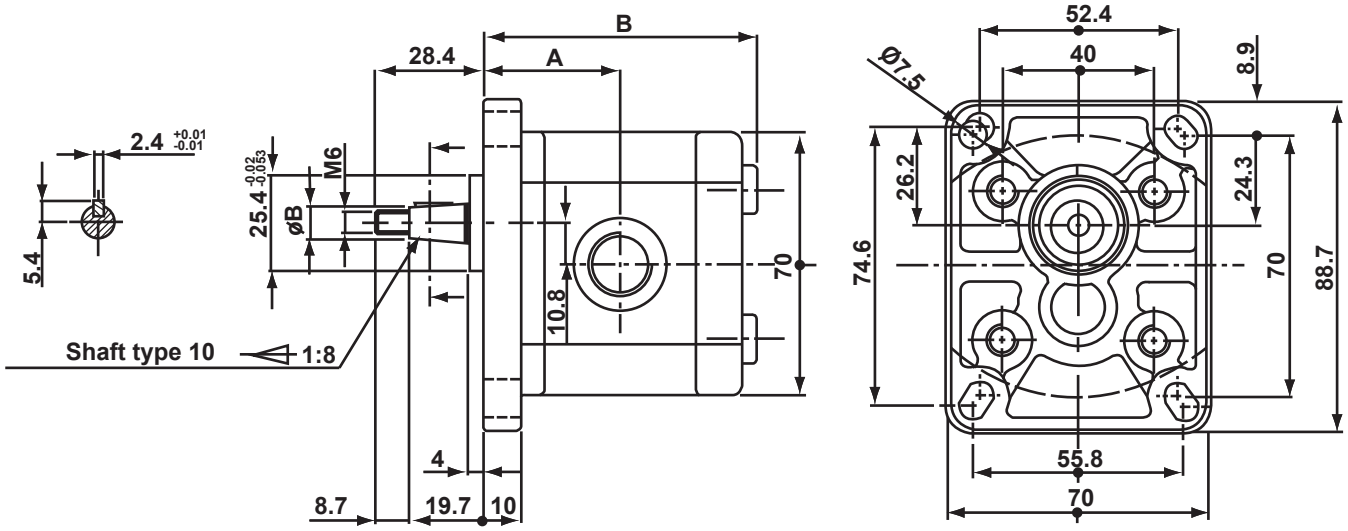
AP05	Displacement		Maximum Pressure						Min. RPM		Max. RPM	
Type	cc/rev	Cu.in/ rev	P1		P2		P3		P<P1	P>P1	P<P1	P>P1
			bar	psi	bar	psi	bar	psi				
AP05/0.25	0.25	.0125	190	2700	200	2900	22	3150	800	1000	6000	7000
AP05/0.5	0.5	.030	210	3000	230	3300	25	3600	650	800	6000	7000
AP05/0.75	0.75	.045	210	3000	230	3300	25	3600	650	800	6000	7000
AP05/0.9	0.9	.055	210	3000	230	3300	25	3600	650	800	6000	7000
AP05/1.2	1.2	.073	190	2700	200	2900	22	3150	550	700	5000	6000

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

1SPA Gear Pumps

DIN Group 1 - 4 Bolt Mount - 1:8 Taper Shaft

Stock No.	Displacement	Dimension mm		Max. Speed RPM	Max. Pressure Bar			Port Size	List Price
	cc/rev	A	B		P1	P2	P3		
1SPA09D10GG	0.89	34.8	70.4	6000	240	260	290	3/8" BSPP	$ 314.00
1SPA12D10GG	1.18	35.35	74.2	6000	240	260	290		$ 314.00
1SPA16D10GG	1.60	36.2	74.4	6000	240	260	290		$ 314.00
1SPA20D10GG	2.00	36.95	74.7	5500	220	250	270		$ 314.00
1SPA25D10GG	2.50	37.95	79.4	5000	220	250	270		$ 314.00
1SPA32D10GG	3.20	39.3	79.4	4500	210	240	260		$ 314.00
1SPA37D10GG	3.70	40.3	84.1	4000	210	240	260		$ 314.00
1SPA42D10GG	4.20	41.25	84.5	3500	190	210	230		$ 314.00
1SPA50D10GG	5.00	42.8	89.1	3000	180	210	230		$ 314.00
1SPA63D10GG	6.30	45.35	94.2	2700	170	190	210		$ 314.00
1SPA78D10GG	7.76	48.2	99.9	2500	170	190	210		$ 314.00
1SPA98D10GG	9.78	52.15	105.1	2000	150	170	190		$ 314.00



Type	Displacement cm3/rev	Max Speed RPM	Max Flow ltr/ min	Min Speed RPM	Min Flow ltr/ min	Volumetric Output
1SP 0.9	0.89	6000	5.3	600	0.49	92%
1SP 1.2	1.18	6000	7.1		0.65	
1SP 1.6	1.69	6000	9.6	400	0.61	95%
1SP 2.0	2.0	5500	11		0.76	
1SP 2.5	2.5	5000	12.5		0.95	
1SP 3.2	3.2	4500	14.4		1.21	
1SP 3.7	3.7	4000	14.8		1.40	
1SP 4.2	4.2	3500	14.7		1.60	
1SP 5.0	5.0	3000	15		1.90	
1SP 6.3	6.3	2700	17		2.39	
1SP 7.8	7.76	2500	19.4		2.95	
1SP 9.8	9.78	2000	19.6		3.71	

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

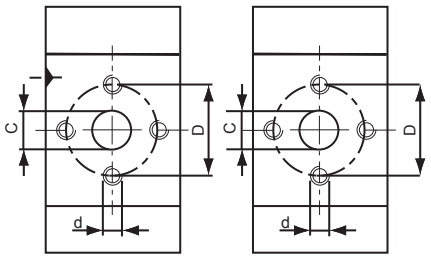
1SPA Gear Pumps

DIN Group 1 - 4 Bolt Mount - 1:8 Taper Shaft

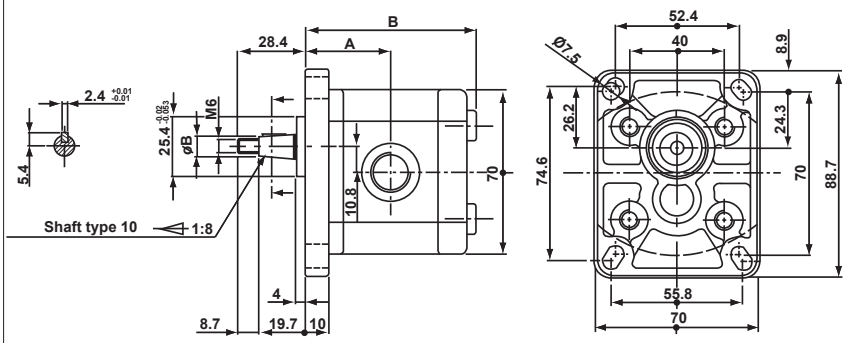
Stock No.	Displacement	Dimension mm		Max. Speed RPM	Max. Pressure Bar			Port Size	List Price
	cc/rev	A	B		P1	P2	P3		
1SPA09D10NN	0.89	34.8	70.4	6000	240	260	290	Refer to table below.	$ 314.00
1SPA12D10NN	1.18	35.35	74.2	6000	240	260	290		$ 314.00
1SPA16D10NN	1.60	36.2	74.4	6000	240	260	290		$ 314.00
1SPA20D10NN	2.00	36.95	74.7	5500	220	250	270		$ 314.00
1SPA25D10NN	2.50	37.95	79.4	5000	220	250	270		$ 314.00
1SPA32D10NN	3.20	39.3	79.4	4500	210	240	260		$ 314.00
1SPA37D10NN	3.70	40.3	84.1	4000	210	240	260		$ 314.00
1SPA42D10NN	4.20	41.25	84.5	3500	190	210	230		$ 314.00
1SPA50D10NN	5.00	42.8	89.1	3000	180	210	230		$ 314.00
1SPA63D10NN	6.30	45.35	94.2	2700	170	190	210		$ 314.00
1SPA78D10NN	7.76	48.2	99.9	2500	170	190	210		$ 314.00
1SPA98D10NN	9.78	52.15	105.1	2000	150	170	190		$ 314.00

TYPE NN

SUCTION **DELIVERY**



Type	C	D	d
0.9 - 2.0	10	26	M5
2.5 - 9.8	13	30	M6



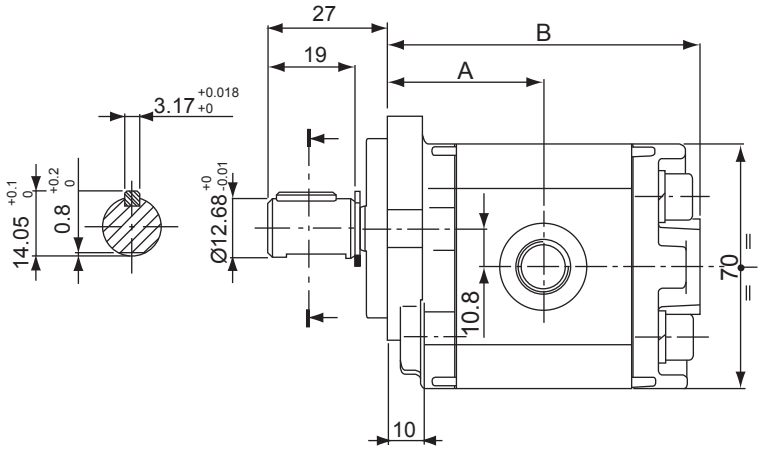
Type	Displacement cm3/rev	Max Speed RPM	Max Flow ltr/ min	Min Speed RPM	Min Flow ltr/ min	Volumetric Output
1SP 0.9	0.89	6000	5.3	600	0.49	92%
1SP 1.2	1.18	6000	7.1		0.65	
1SP 1.6	1.69	6000	9.6	400	0.61	95%
1SP 2.0	2.0	5500	11		0.76	
1SP 2.5	2.5	5000	12.5		0.95	
1SP 3.2	3.2	4500	14.4		1.21	
1SP 3.7	3.7	4000	14.8		1.40	
1SP 4.2	4.2	3500	14.7		1.60	
1SP 5.0	5.0	3000	15		1.90	
1SP 6.3	6.3	2700	17		2.39	
1SP 7.8	7.76	2500	19.4		2.95	
1SP 9.8	9.78	2000	19.6		3.71	

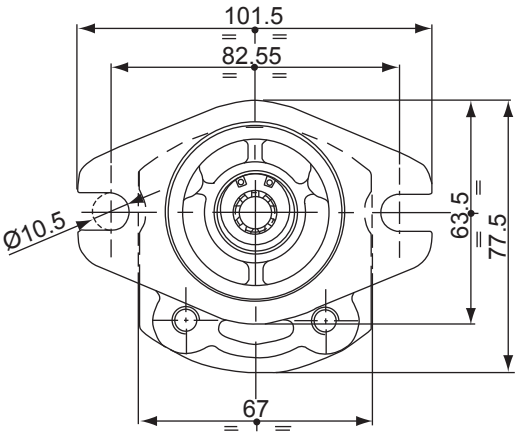
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

1SPA Gear Pumps

SAE AA Group 1 - 2 Bolt Mount - 1/2” Dia. Straight Keyed Shaft

Stock No.	Displacement	Dimension mm		Max. Speed RPM	Max. Pressure Bar			Port Size	List Price
	cc/rev	A	B		P1	P2	P3		
1SPA09DSAEAA13U	0.89	38.3	77.1	6000	240	260	290	9/16” UNO	$ 336.00
1SPA12DSAEAA13U	1.18	38.8	78.2	6000	240	260	290		$ 336.00
1SPA16DSAEAA13U	1.60	39.7	79.9	6000	240	260	290		$ 336.00
1SPA20DSAEAA13U	2.00	40.4	81.4	5500	220	250	270		$ 336.00
1SPA25DSAEAA13U	2.50	41.4	83.4	5000	220	250	270	3/4” UNO	$ 336.00
1SPA32DSAEAA13U	3.20	42.8	86.1	4500	210	240	260		$ 336.00
1SPA37DSAEAA13U	3.70	43.8	88.1	4000	210	240	260		$ 336.00
1SPA42DSAEAA13U	4.20	44.7	90.0	3500	190	210	230		$ 336.00
1SPA50DSAEAA13U	5.00	46.3	93.1	3000	180	210	230		$ 336.00
1SPA63DSAEAA13U	6.30	48.8	98.2	2700	170	190	210		$ 336.00
1SPA78DSAEAA13U	7.76	51.7	103.9	2500	170	190	210		$ 336.00
1SPA98DSAEAA13U	9.78	55.6	111.8	2000	150	170	190		$ 336.00





Type	Displacement cm3/rev	Max Speed RPM	Max Flow ltr/ min	Min Speed RPM	Min Flow ltr/ min	Volumetric Output
1SP 0.9	0.89	6000	5.3	600	0.49	92%
1SP 1.2	1.18	6000	7.1		0.65	
1SP 1.6	1.69	6000	9.6	400	0.61	95%
1SP 2.0	2.0	5500	11		0.76	
1SP 2.5	2.5	5000	12.5		0.95	
1SP 3.2	3.2	4500	14.4		1.21	
1SP 3.7	3.7	4000	14.8		1.40	
1SP 4.2	4.2	3500	14.7		1.60	
1SP 5.0	5.0	3000	15		1.90	
1SP 6.3	6.3	2700	17		2.39	
1SP 7.8	7.76	2500	19.4		2.95	
1SP 9.8	9.78	2000	19.6		3.71	

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

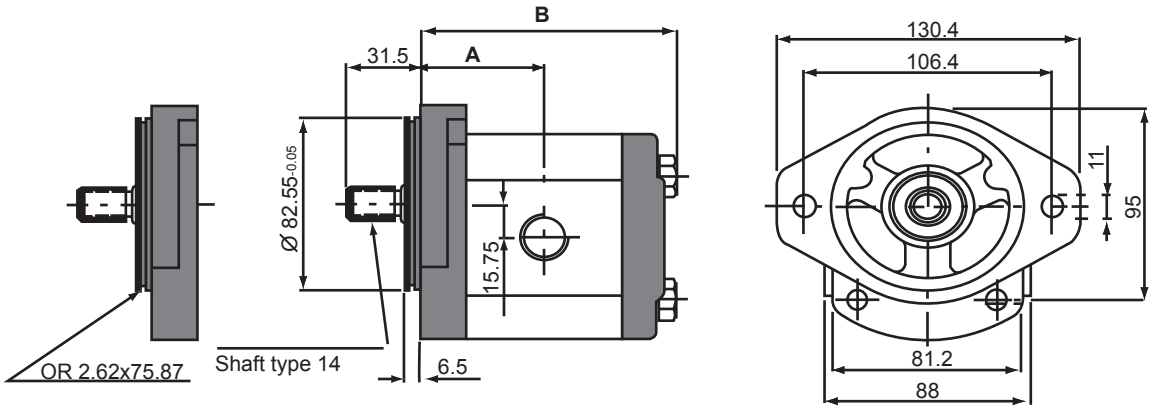
HC2P Gear Pumps

SAE 'A' - 2 Bolt Mount - 5/8" Dia. Straight Keyed Shaft - Cast Iron End Covers

Stock No.	Model Code	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
		cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
HC02P00040	HC02PG4DSAEA13U	4.0	7/8" UNO	7/8" UNO	44.4	93.0	4000	280	300	320	$ 440.00
HC02P00041	HC02PG6DSAEA13U	6.0			46.0	96.3	4000	280	300	320	$ 440.00
HC02P00042	HC02PG8DSAEA13U	8.5			48.1	100.5	3500	280	300	320	$ 440.00
HC02P00043	HC02PG11DSAEA13U	11.0	1-1/16" UNO	7/8" UNO	50.2	104.6	3500	280	300	320	$ 451.00
HC02P00044	HC02PG14DSAEA13U	14.0			52.7	109.6	3500	270	280	290	$ 451.00
HC02P00100	HC02PG16DSAEA13U	16.5			54.8	113.8	3500	230	240	250	$ 451.00
HC02P00045	HC02PG19DSAEA13U	19.5			57.3	118.8	3300	210	220	230	$ 462.00
HC02P00046	HC02PG22DSAEA13U	22.5			59.8	123.8	2800	190	200	210	$ 473.00
HC02P00047	HC02PG26DSAEA13U	26.0			62.7	129.6	2500	170	180	190	$ 473.00

SAE 'A' - 2 Bolt Mount - 5/8" Dia. 9 Tooth Splined Shaft - Cast Iron End Covers

Stock No.	Model Code	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
		cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
HC02P00048	HC02PG4DSAEA14U	4.0	7/8" UNO	7/8" UNO	44.4	93.0	4000	280	300	320	$ 440.00
HC02P00049	HC02PG6DSAEA14U	6.0			46.0	96.3	4000	280	300	320	$ 440.00
HC02P00050	HC02PG8DSAEA14U	8.5			48.1	100.5	3500	280	300	320	$ 440.00
HC02P00051	HC02PG11DSAEA14U	11.0	1-1/16" UNO	7/8" UNO	50.2	104.6	3500	280	300	320	$ 451.00
HC02P00052	HC02PG14DSAEA14U	14.0			52.7	109.6	3500	270	280	290	$ 451.00
HC02P00099	HC02PG16DSAEA14U	16.5			54.8	113.8	3500	230	240	250	$ 451.00
HC02P00053	HC02PG19DSAEA14U	19.5			57.3	118.8	3300	210	220	230	$ 462.00
HC02P00054	HC02PG22DSAEA14U	22.5			59.8	123.8	2800	190	200	210	$ 473.00
HC02P00055	HC02PG26DSAEA14U	26.0			62.7	129.6	2500	170	180	190	$ 473.00

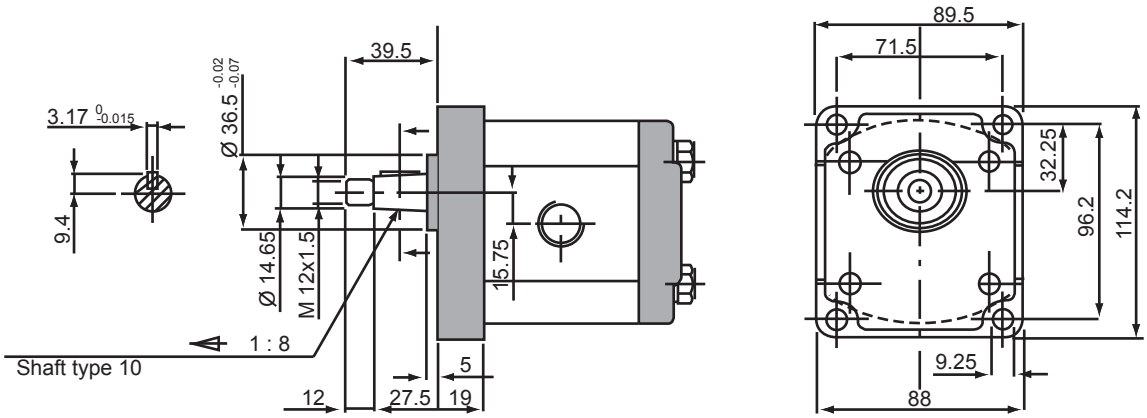


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

HC2P Gear Pumps

DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers

Stock No.	Model Code	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
		cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
HC02P00056	HC02PG4DSTND10U	4.0	7/8" UNO	7/8" UNO	44.4	93.0	4000	280	300	320	$ 440.00
HC02P00057	HC02PG6DSTND10U	6.0			46.0	96.3	4000	280	300	320	$ 440.00
HC02P00058	HC02PG8DSTND10U	8.5			48.1	100.5	3500	280	300	320	$ 440.00
HC02P00059	HC02PG11DSTND10U	11.0	1-1/16" UNO	7/8" UNO	50.2	104.6	3500	280	300	320	$ 451.00
HC02P00060	HC02PG14DSTND10U	14.0			52.7	109.6	3500	270	280	290	$ 451.00
HC02P00061	HC02PG16DSTND10U	16.5			54.8	113.8	3500	230	240	250	$ 451.00
HC02P00062	HC02PG19DSTND10U	19.5			57.3	118.8	3300	210	220	230	$ 462.00
HC02P00063	HC02PG22DSTND10U	22.5			59.8	123.8	2800	190	200	210	$ 462.00
HC02P00064	HC02PG26DSTND10U	26.0			62.7	129.6	2500	170	180	190	$ 462.00



Type	Displacement	Max. Speed	Max Flow LPM	Min. Speed	Min. Flow LPM	Volumetric Output	Weight Kgs
HC 2P 4	4.0	4000	15.20	500 RPM	1.9	95%	3.40
HC 2P 6	6.0	4000	22.8		2.85		3.55
HC 2P 8	8.5	3500	28.26		4.03		3.70
HC 2P 11	11.0	3500	36.57		5.22		3.80
HC 2P 14	14.0	3500	46.55		6.65		3.90
HC 2P 16	16.5	3500	54.86		7.83		4.05
HC 2P 19	19.5	3300	61.13		9.26		4.20
HC 2P 22	22.5	2800	59.85		10.68		4.35
HC 2P 26	26.0	2500	61.75		12.35		4.50

SAE / DIN Group 2 Accessories

Stock No.	Description	Pressure	Vent	List Price	
0029CVLPIB	Rear Cover c/w Relief	10 - 100 bar	P to T	add	$ 187.00
0029CVLPIN	Rear Cover c/w Relief	40 - 200 bar	P to T	add	$ 187.00
0029CVLPIR	Rear Cover c/w Relief	180 - 350 bar	P to T	add	$ 187.00

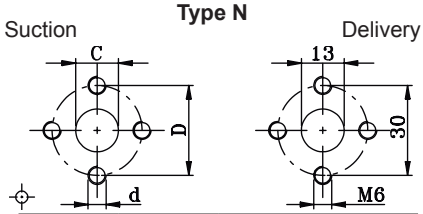
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

2SPA Gear Pumps

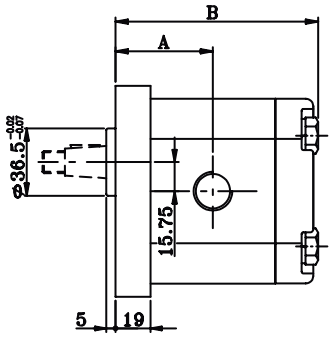
DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft

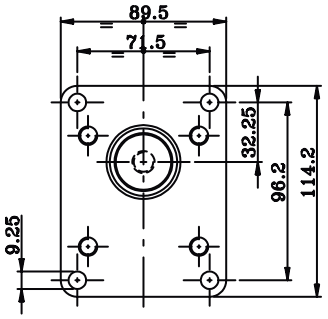
Stock No.	Model Code	Displacement	Port Adaptors		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
		cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
2SPA4D10N	HC02SPA4D10N	4.0	FG1230	FG1230	44.4	93.0	4000	280	300	320	$ 440.00
2SPA6D10N	HC02SPA6D10N	6.0			46.0	96.3	4000	280	300	320	$ 440.00
2SPA8D10N	HC02SPA8D10N	8.5			48.1	100.5	3500	280	300	320	$ 440.00
2SPA11D10N	HC02SPA11D10N	11.0	FG3440	FG1230	50.2	104.6	3500	280	300	320	$ 451.00
2SPA14D10N	HC02SPA14D10N	14.0			52.7	109.6	3500	270	280	290	$ 451.00
2SPA16D10N	HC02SPA16D10N	16.5			54.8	113.8	3500	230	240	250	$ 451.00
2SPA19D10N	HC02SPA19D10N	19.5			57.3	118.8	3300	210	220	230	$ 462.00
2SPA22D10N	HC02SPA22D10N	22.5			59.8	123.8	2800	190	200	210	$ 462.00
2SPA26D10N	HC02SPA26D10N	26.0			62.7	129.6	2500	170	180	190	$ 462.00

Type N



Type	C	D	d
4 - 8	13	30	M6
11 - 26	19	40	M8

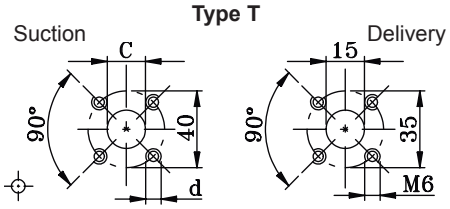




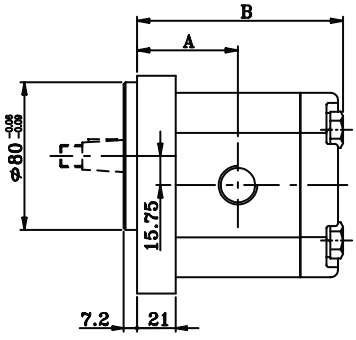
Bosch Group 2 - 4 Bolt Mount - 1:5 Taper Shaft

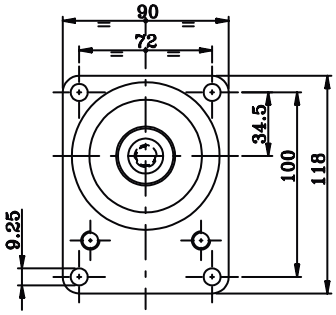
Stock No.	Model Code	Displacement	Port Adaptors		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
		cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
2SPA4DB80C11T	HC02SPA4DB80C11T	4.0	FG 121 BKAL	FG 121 BKAL	46.4	95	4000	280	300	320	$ 440.00
2SPA6DB80C11T	HC02SPA6DB80C11T	6.0			48	98.3	4000	280	300	320	$ 440.00
2SPA8DB80C11T	HC02SPA8DB80C11T	8.5			50.1	102.5	3500	280	300	320	$ 440.00
2SPA11DB80C11T	HC02SPA11DB80C11T	11.0	FG 122 BKAL	FG 121 BKAL	52.2	106.6	3500	280	300	320	$ 451.00
2SPA14DB80C11T	HC02SPA14DB80C11T	14.0			54.7	111.6	3500	270	280	290	$ 451.00
2SPA16DB80C11T	HC02SPA16DB80C11T	16.5			56.8	115.8	3500	230	240	250	$ 451.00
2SPA19DB80C11T	HC02SPA19DB80C11T	19.5			59.3	120.8	3300	210	220	230	$ 462.00
2SPA22DB80C11T	HC02SPA22DB80C11T	22.5			61.8	125.8	2800	190	200	210	$ 462.00
2SPA26DB80C11T	HC02SPA26DB80C11T	26.0			64.7	131.6	2500	170	180	190	$ 462.00

Type T



Type	C	d
4 - 8	15	M6
11 - 26	20	M8



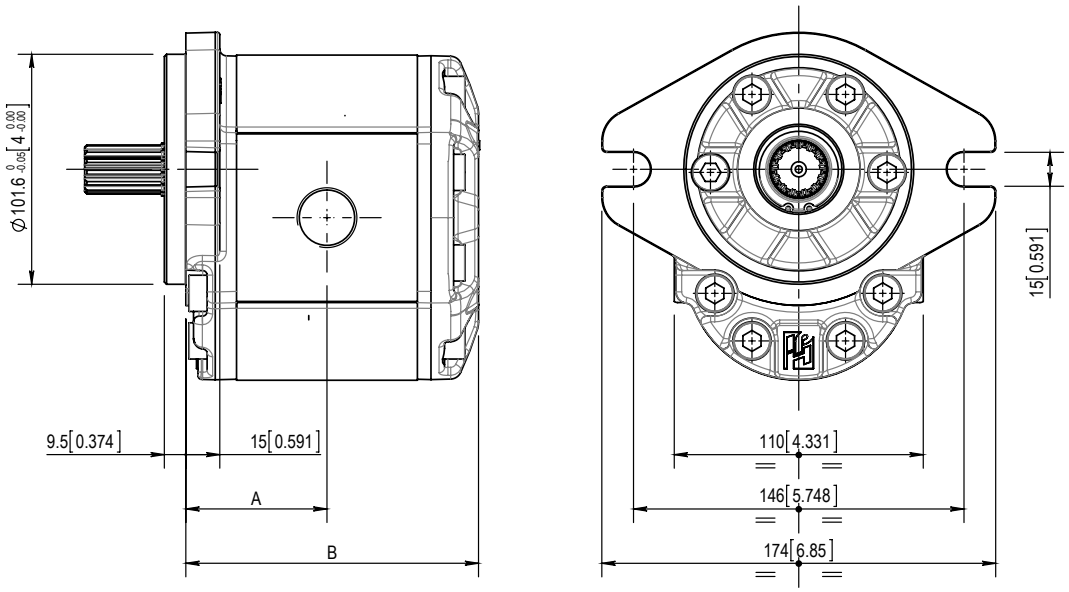


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

3GPG Gear Pumps

SAE ‘B’ 2 Bolt Mount - 7/8 Dia. Straight Keyed Shaft - Aluminium End Covers

Model Code	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
3GPG190DSAEBBN130W	19.3	1-5/16” UNO	1-1/16” UNO	62.4	128.3	3500	290	320	335	$ 891.00
3GPG230DSAEBBN130W	23.0			63.9	131.3	3500	290	320	335	$ 891.00
3GPG300DSAEBBN130W	30.2			66.9	137.3	3300	280	310	323	$ 891.00
3GPG340DSAEBBN130W	33.8	1-5/8” UNO	1-5/16” UNO	68.4	140.3	3300	280	310	323	$ 891.00
3GPG370DSAEBBN130W	37.5			69.9	143.3	3300	280	310	323	$ 913.00
3GPG440DSAEBBN130W	44.6			72.9	149.3	3000	260	290	300	$ 935.00
3GPG530DSAEBBN130W	53.0			76.4	156.3	3000	240	270	277	$ 957.00
3GPG620DSAEBBN130W	62.7			80.4	164.3	2500	200	220	231	$ 989.00
3GPG700DSAEBBN130W	70.5	1-7/8” UNO	1-5/8” UNO	86.9	170.8	2500	180	200	208	$ 989.00
3GPG770DSAEBBN130W	77.2			92.4	176.3	2200	170	190	196	$ 989.00



SAE ‘B’ 2 Bolt Mount - 7/8 Dia. 13 Tooth Splined Shaft - Aluminium End Covers

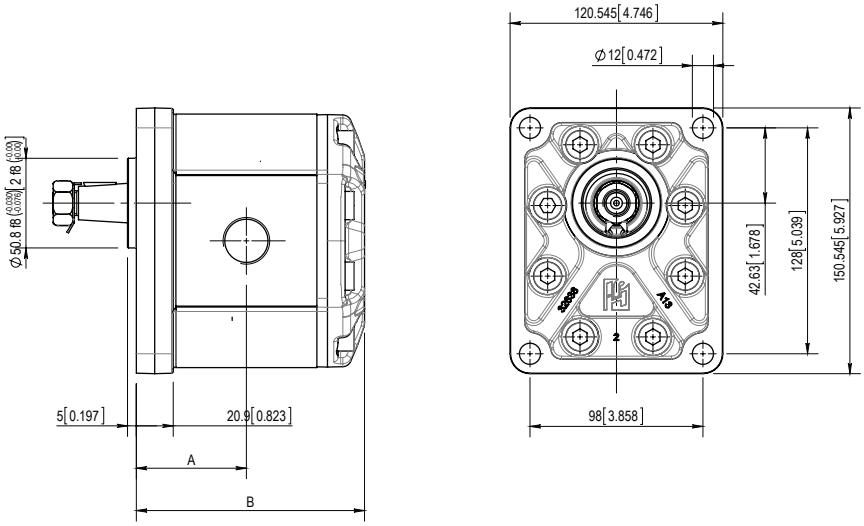
Model Code	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
3GPG190DSAEBBN140W	19.3	1-5/16” UNO	1-1/16” UNO	62.4	128.3	3500	290	320	335	$ 891.00
3GPG230DSAEBBN140W	23.0			63.9	131.3	3500	290	320	335	$ 891.00
3GPG300DSAEBBN140W	30.2			66.9	137.3	3300	280	310	323	$ 891.00
3GPG340DSAEBBN140W	33.8	1-5/8” UNO	1-5/16” UNO	68.4	140.3	3300	280	310	323	$ 891.00
3GPG370DSAEBBN140W	37.5			69.9	143.3	3300	280	310	323	$ 913.00
3GPG440DSAEBBN140W	44.6			72.9	149.3	3000	260	290	300	$ 935.00
3GPG530DSAEBBN140W	53.0			76.4	156.3	3000	240	270	277	$ 957.00
3GPG620DSAEBBN140W	62.7			80.4	164.3	2500	200	220	231	$ 989.00
3GPG700DSAEBBN140W	70.5	1-7/8” UNO	1-5/8” UNO	86.9	170.8	2500	180	200	208	$ 989.00
3GPG770DSAEBBN140W	77.2			92.4	176.3	2200	170	190	196	$ 989.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

3GPG Gear Pumps

DIN Group 3- 4 Bolt Mount - 1:8 Taper Shaft - Aluminium End Covers

Model Code	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
3GPG190DEURBN100W	19.3	1-5/16" UNO	1-1/16" UNO	62.4	128.3	3500	290	320	335	$ 891.00
3GPG230DEURBN100W	23.0			63.9	131.3	3500	290	320	335	$ 891.00
3GPG300DEURBN100W	30.2			66.9	137.3	3300	280	310	323	$ 891.00
3GPG340DEURBN100W	33.8	1-5/8" UNO	1-5/16" UNO	68.4	140.3	3300	280	310	323	$ 891.00
3GPG370DEURBN100W	37.5			69.9	143.3	3300	280	310	323	$ 913.00
3GPG440DEURBN100W	44.6			72.9	149.3	3000	260	290	300	$ 935.00
3GPG530DEURBN100W	53.0			76.4	156.3	3000	240	270	277	$ 957.00
3GPG620DEURBN100W	62.7			80.4	164.3	2500	200	220	231	$ 989.00
3GPG700DEURBN100W	70.5	1-7/8" UNO	1-5/8" UNO	86.9	170.8	2500	180	200	208	$ 989.00
3GPG770DEURBN100W	77.2			92.4	176.3	2200	170	190	196	$ 989.00



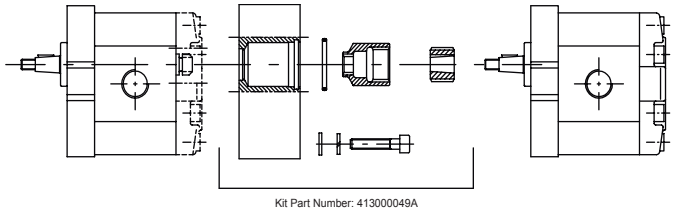
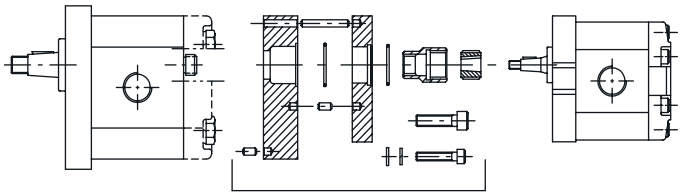
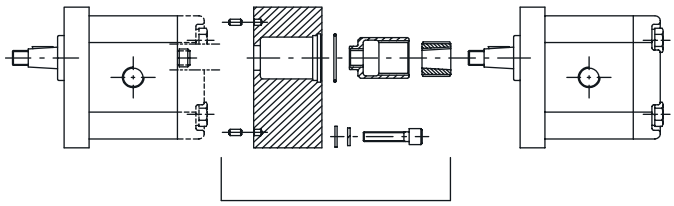
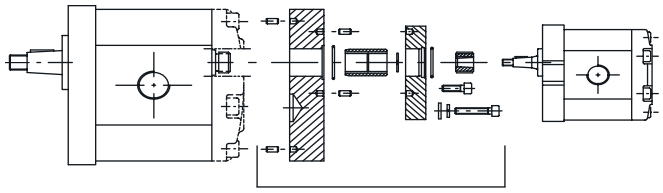
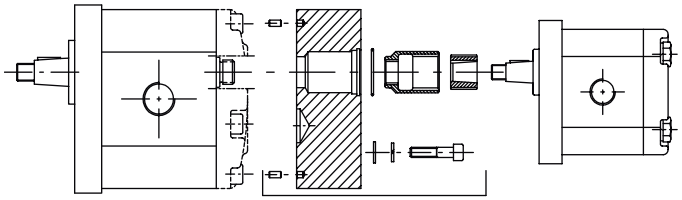
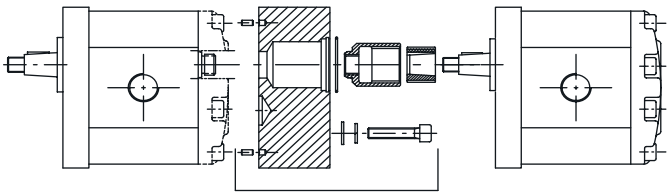
Type	Displacement	Max. Speed	Max Flow LPM	Min. Speed	Min. Flow LPM	Volumetric Output	Weight Kgs
3GP19	19.3	3500	67.6	700 RPM	12.8	95%	7.67
3GP23	23.0	3500	80.3		15.3		7.81
3GP30	30.2	3300	99.7		20.1		8.09
3GP34	33.8	3300	111.6		22.5		8.22
3GP37	37.5	3300	123.6		24.9		8.36
3GP44	44.6	3000	133.8		29.7		8.64
3GP55	53.0	3000	159.1		35.3		8.96
3GP62	62.7	2500	156.8		41.7		9.33
3GP70	70.5	2500	176.3		46.9		9.63
3GP77	77.2	2200	169.8		51.3		9.88

DIN Group 3 Accessories

Stock No.	Description	Pressure	Vent	List Price
003GCVLPB	Rear Cover c/w Relief	20 - 100 bar	P to T	add $ 206.00
003GCVLPN	Rear Cover c/w Relief	40 - 200 bar	P to T	add $ 206.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

HC Multiple Gear Pumps

Stock No.	Description		List Price
413000049A	Group 1 + Group 1 Adaptor Kit	 Kit Part Number: 413000049A	$ 176.00
413000050	Group 2 + Group 1 Adaptor Kit	 Kit Part Number: 413000050	$ 183.00
413000057	Group 2 + Group 2 Adaptor Kit	 Kit Part Number: 413000057	$ 183.00
413000058A	Group 3 + Group 1 Adaptor Kit	 Kit Part Number: 413000058A	$ 286.00
413000077	Group 3 + Group 2 Adaptor Kit	 Kit Part Number: 413000077	$ 286.00
413000076	Group 3 + Group 3 Adaptor Kit	 Kit Part Number: 413000076	$ 308.00

Technical Features

* Performance of units in multiple pump applications are the same as single pump.
* Maximum rotation speed of multiple pumps is governed by the slower pump.
* Maximum allowable torque is calculated using the following formula.

$$T = \frac{D \times P}{64}$$

Where: T = Maximum allowable input torque (Nm)
D = Combined pump displacements (cm3/rev)
P = Maximum working pressure (bar)

Maximum allowable input torque	
Group 1	18 Nm
Group 2	98 Nm
Group 3	240 Nm

CROSS

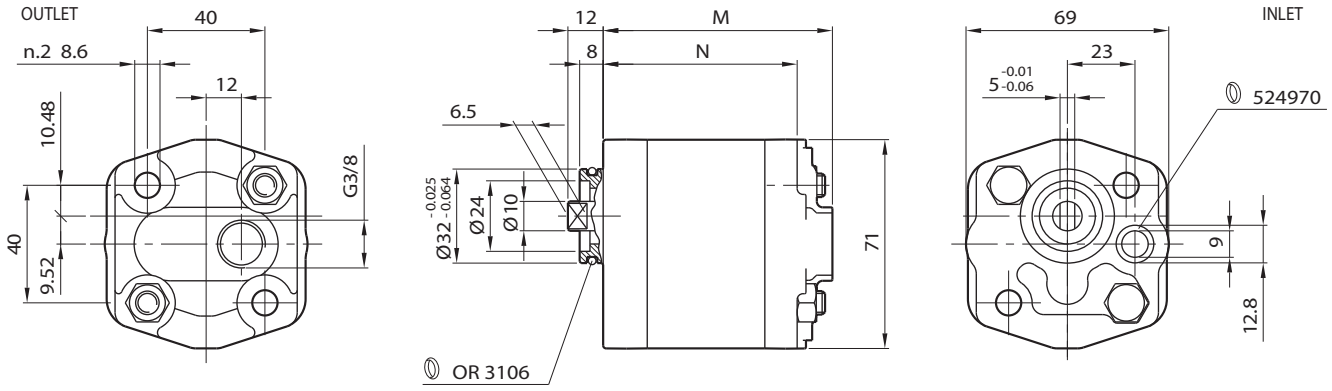
MARZOCCHI

K1PS G Gear Pumps

Group 1 - Power Pack Style - Tang Drive - Front Manifold P

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	N	M		P1	P2	P3	
K2507PA014	0.84	3/8" BSPP	9 Ø	74	62	6000	230	250	270	$ 300.00
K1PS16G	1.1			75	62	6000	230	250	270	$ 300.00
K1PS2G	1.3			75	63	6000	230	250	270	$ 300.00
K1PS25G	1.6			76	64	6000	230	250	270	$ 300.00
K1PS33G	2.1			78	66	6000	230	250	270	$ 300.00
K1PS42G	2.7			80	68	5000	210	230	250	$ 300.00
K1PS5G	3.2			82	70	4500	210	230	250	$ 300.00
K1PS58G	3.7			84	72	4000	210	230	250	$ 300.00
K1PS67G	4.2			86	74	3500	190	210	230	$ 300.00
K1PS75G	4.8			88	76	3000	190	210	230	$ 300.00
K1PS92G	5.8			92	80	2100	160	180	200	$ 300.00
K1PS115G	8.0			100	88	2100	160	180	200	$ 330.00
C164088000	9.8			120	95	2100	160	180	200	$ 330.00

Left Hand Rotation

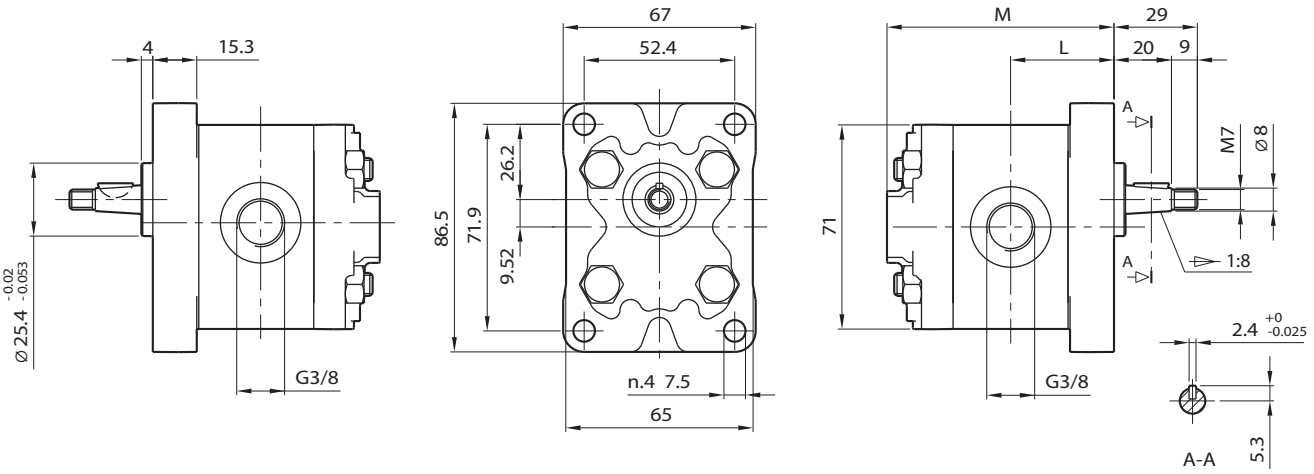


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

1P Gear Pumps

DIN Group 1 - 4 Bolt Mount - 1:8 Taper Shaft - Aluminium

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
1PD16GAS	1.1	3/8" BSPP	3/8" BSPP	34	75	6000	230	250	270	$ 329.00
1PD2GAS	1.3			34.5	76	6000	230	250	270	$ 329.00
1PD25GAS	1.6			35	77	6000	230	250	270	$ 329.00
1PD33GAS	2.1			36	79	6000	230	250	270	$ 329.00
1PD42GAS	2.7			37	81	6000	230	250	270	$ 329.00
1PD5GAS	3.2			38	83	5000	210	230	250	$ 329.00
1PD58GAS	3.7			39	85	4500	210	230	250	$ 329.00
1PD67GAS	4.2			40	87	4000	210	230	250	$ 329.00
1PD75GAS	4.8			41	89	3500	190	210	230	$ 329.00
1PD92GAS	5.8			43	93	3000	190	210	230	$ 329.00
1PD115GAS	8.0			47	101	2100	160	180	200	$ 329.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

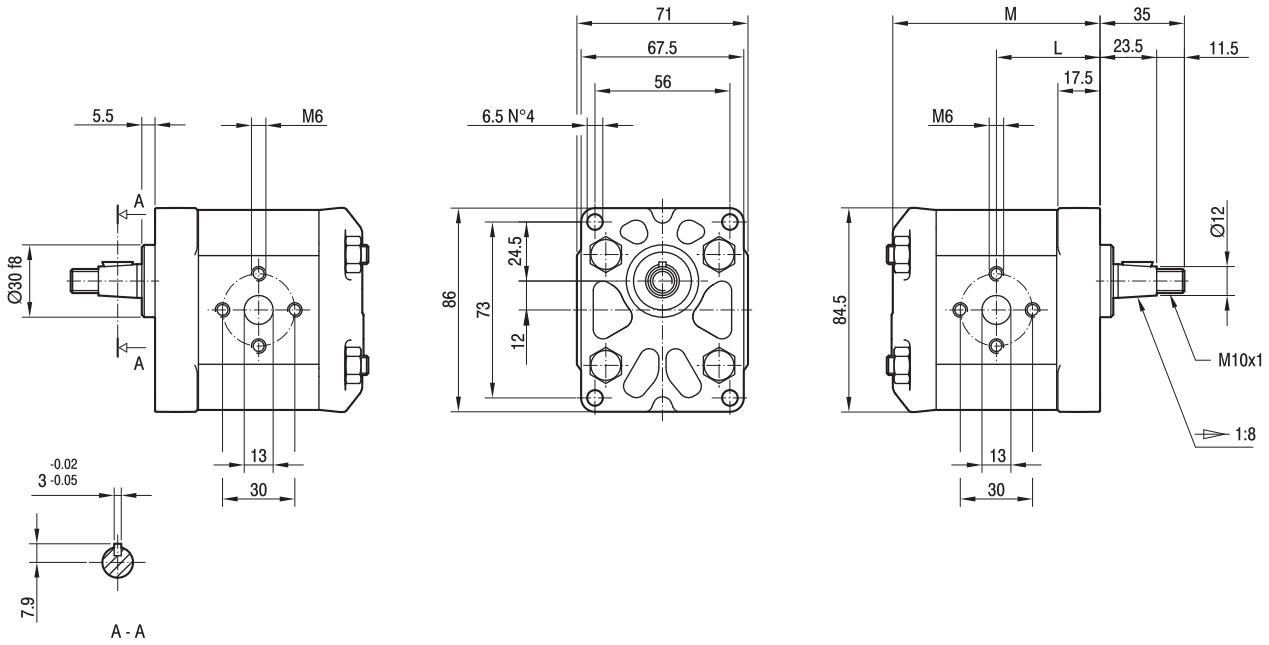
ALP1 Gear Pumps

DIN Group 1 Heavy - 4 Bolt Mount - 1:8 Taper Shaft - Aluminium (Heavy)

Stock No.	Displacement	Port Adaptors		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
ALP1D2TOE	1.4	FG3830	FG3830	40	80.5	6000	250	270	290	$ 314.00
ALP1D3TOE	2.1	FG3830	FG3830	41	82.5	6000	250	270	290	$ 314.00
ALP1D4TOE	2.8	FG3830	FG3830	42	84.5	5000	250	270	290	$ 314.00
ALP1D5TOE	3.5	FG3830	FG3830	43	86.5	5000	250	270	290	$ 314.00
ALP1D6TOE	4.1	FG3830	FG3830	44	88.5	4000	250	270	290	$ 314.00
ALP1D7TOE	5.2	FG1230	FG3830	45.5	91.5	4000	230	245	260	$ 314.00
ALP1D9TOE	6.2	FG1230	FG3830	47	94.5	3800	230	245	260	$ 314.00
ALP1D11TOE	7.6	FG1230	FG3830	49	98.5	3200	200	215	230	$ 330.00
ALP1D13TOE	9.3	FG1230	FG1230	51.5	103.5	2600	180	195	210	$ 330.00
ALP1D16TOE	11.0	FG1230	FG1230	54	108.5	2300	170	185	200	$ 330.00
ALP1D20TOE	13.8	FG1230	FG1230	58	116.5	1800	150	165	180	$ 340.00

OUTLET

INLET

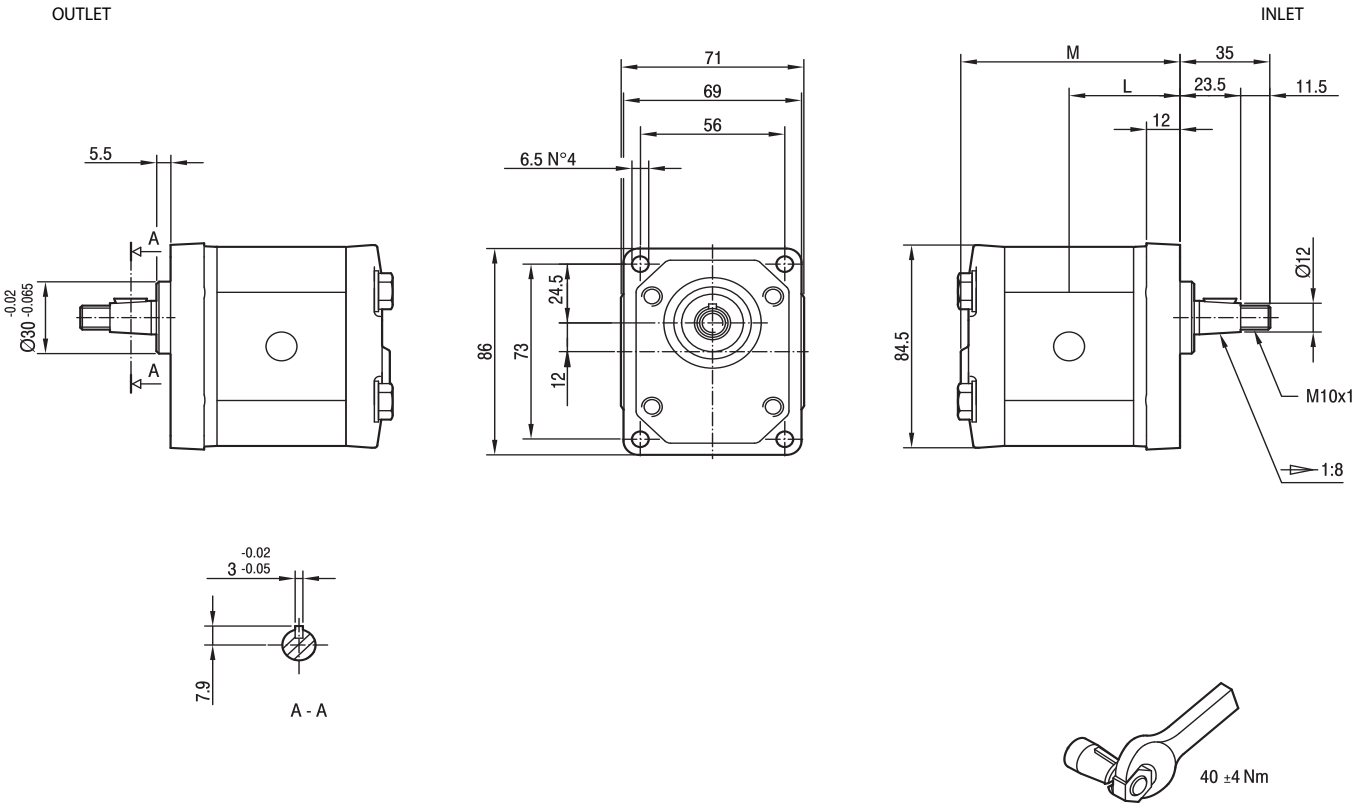


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

GHP1 Gear Pumps

DIN Group 1 Heavy - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron (Heavy)

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
GHP1D2T0FG	1.4	1/2” BSPP	3/8” BSPP	40	79	6000	270	290	310	$ 335.00
GHP1D3T0FG	2.1	1/2” BSPP	3/8” BSPP	41	81	6000	270	290	310	$ 335.00
GHP1D4T0FG	2.8	1/2” BSPP	3/8” BSPP	42	83	5000	270	290	310	$ 335.00
GHP1D5T0FG	3.5	1/2” BSPP	3/8” BSPP	43	85	5000	270	290	310	$ 335.00
GHP1D6T0FG	4.1	1/2” BSPP	1/2” BSPP	44	87	4000	270	290	310	$ 335.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

CROSS

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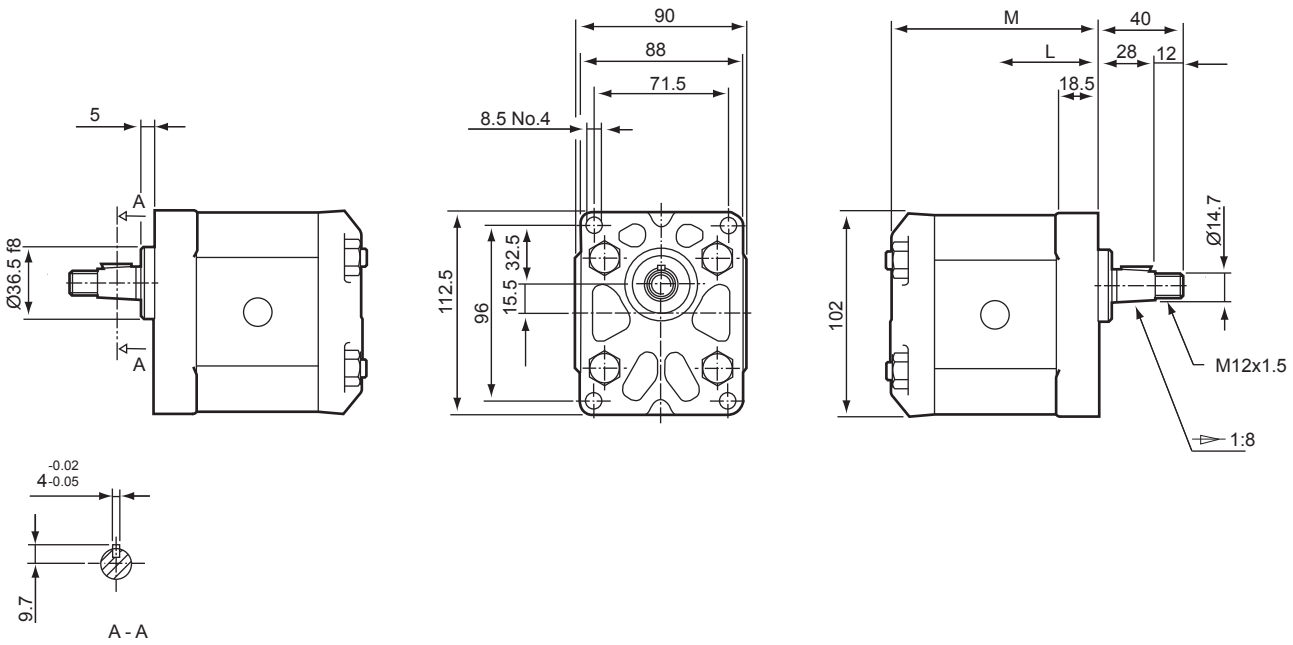
ALP2 Gear Pumps

DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft - Aluminium

Stock No.	Model Code	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
		cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
2D6GAS	ALP2D6FG	4.5	1/2" BSPP	1/2" BSPP	45.5	93.5	4000	250	270	290	$ 440.00
2D9GAS	ALP2D9FG	6.4			47	96.5	4000	250	270	290	$ 440.00
2D10GAS	ALP2D10FG	7.0			47.5	97.5	4000	250	270	290	$ 440.00
2D12GAS	ALP2D12FG	8.3			48.5	99.5	3500	250	270	290	$ 440.00
2D13GAS	ALP2D13FG	9.6			49.5	101.5	3000	250	270	290	$ 440.00
2D16GAS	ALP2D16FG	11.5			51	104.5	3000	230	250	270	$ 451.00
2D20GAS	ALP2D20FG	14.1	3/4" BSPP	1/2" BSPP	53	108.5	4000	230	250	270	$ 451.00
2D22GAS	ALP2D22FG	16.0			54.5	111.5	4000	210	225	240	$ 451.00
2D25GAS	ALP2D25FG	17.9			56	114.5	3600	210	225	240	$ 462.00
2D30GAS	ALP2D30FG	21.1			58.5	119.5	3200	180	195	210	$ 462.00
2D34GAS	ALP2D34FG	23.7			60.5	123.5	3000	180	195	210	$ 462.00
2D37GAS	ALP2D37FG	25.5			62	126.5	2800	170	185	200	$ 462.00
2D40GAS	ALP2D40FG	28.2			64	130.5	2500	170	185	200	$ 462.00
2D50GAS	ALP2D50FG	35.2			69.5	141.5	2500	140	155	170	$ 473.00

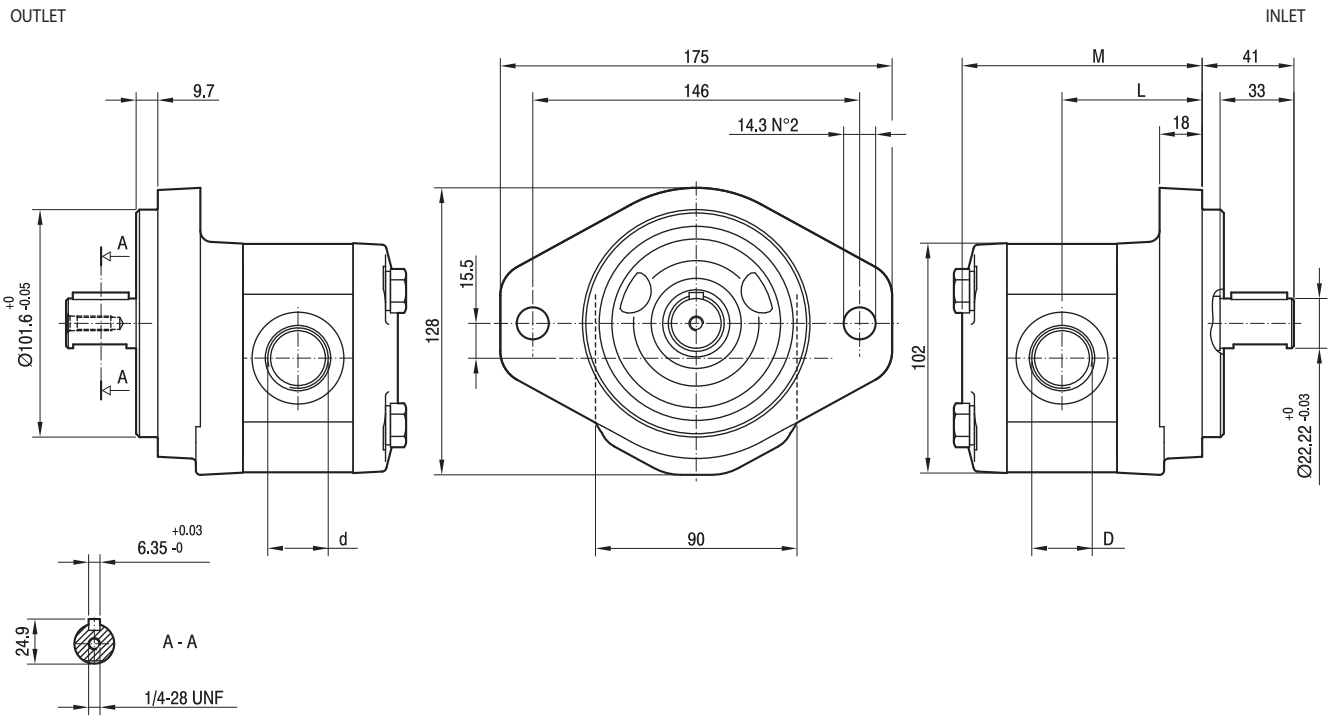


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

GHP2A3 Gear Pumps

SAE ‘B’ 2 Bolt Mount - 7/8” 13 Tooth Spline - Cast Iron End Covers - Aluminium Body

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
GHP2A3D655	4.5	1-1/16” UN	7/8” UN	64.5	111	4000	2800	295	310	$ 496.00
GHP2A3D955	6.4	1-1/16” UN	7/8” UN	66	114	4000	2800	295	310	$ 496.00
GHP2A3D1055	7.0	1-1/16” UN	7/8” UN	66.5	115	4000	2800	295	310	$ 496.00
GHP2A3D1255	8.3	1-1/16” UN	7/8” UN	67.5	117	4000	2800	295	310	$ 496.00
GHP2A3D1355	9.6	1-1/16” UN	7/8” UN	68.5	119	4000	2800	295	310	$ 496.00
GHP2A3D1655	11.5	1-1/16” UN	7/8” UN	70	122	4000	2800	295	310	$ 496.00

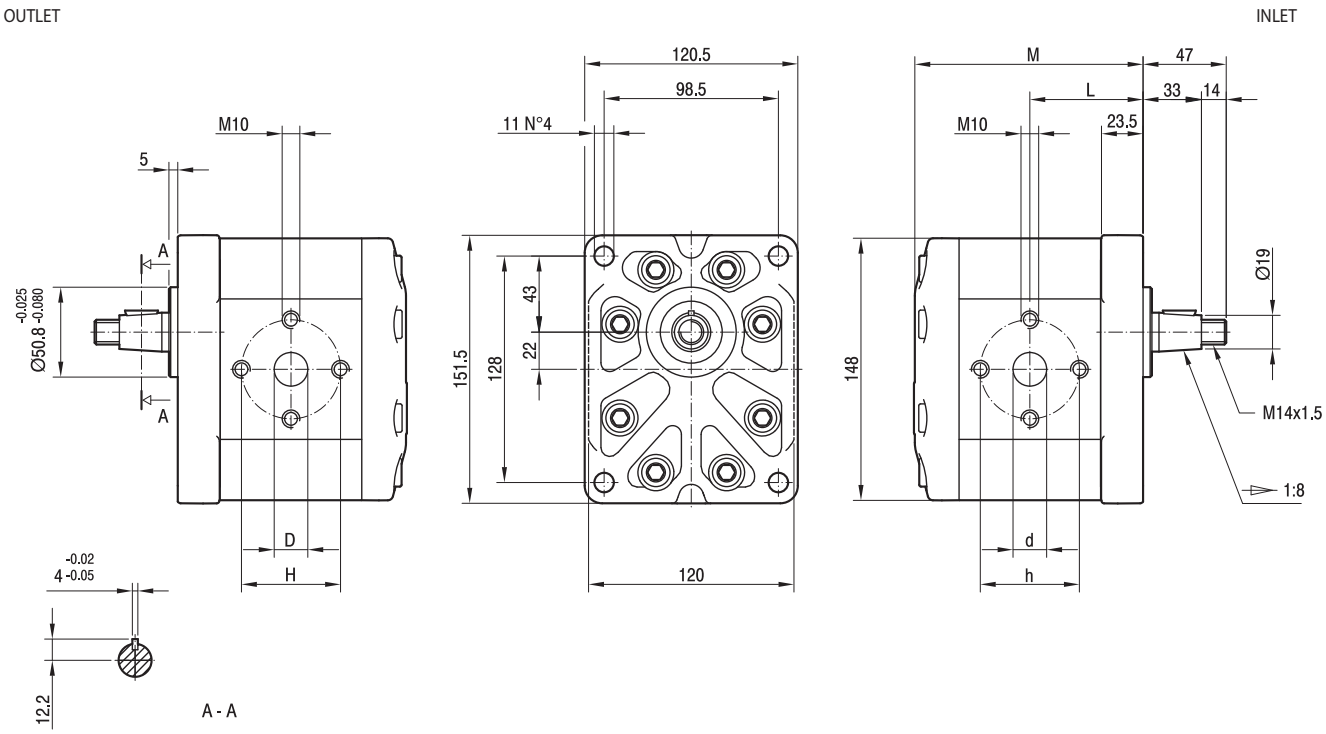


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

ALP3 Gear Pumps

ALP3 DIN Group 3 - 4 Bolt Mount - 1:8 Taper Shaft - Aluminium

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	h Inlet	H Outlet	L	M		P1	P2	P3	
ALP3D30	20	56 mm	56mm	64	130	3500	230	250	270	$ 890.00
ALP3D33	22	56 mm	56 mm	64.5	131	3500	230	250	270	$ 890.00
ALP3D40	26	56 mm	56 mm	66	134	3000	230	250	270	$ 890.00
ALP3D50	33	56 mm	56 mm	68.5	139	3000	230	250	270	$ 890.00
ALP3D60	39	56 mm	56 mm	70.5	143	3000	220	240	260	$ 890.00
ALP3D66	44	51 mm	51 mm	72	146	2800	210	230	250	$ 900.00
ALP3D80	52	56 mm	56 mm	75	152	2400	200	215	230	$ 900.00
ALP3D94	61	62 mm	51 mm	78	158	2800	190	205	220	$ 900.00
ALP3D110	71	62 mm	51 mm	81.5	165	2500	170	185	200	$ 950.00
ALP3D120	78	62 mm	51 mm	84	170	2300	160	175	190	$ 950.00
ALP3D135	87	62 mm	51 mm	87	176	2000	140	155	170	$ 950.00

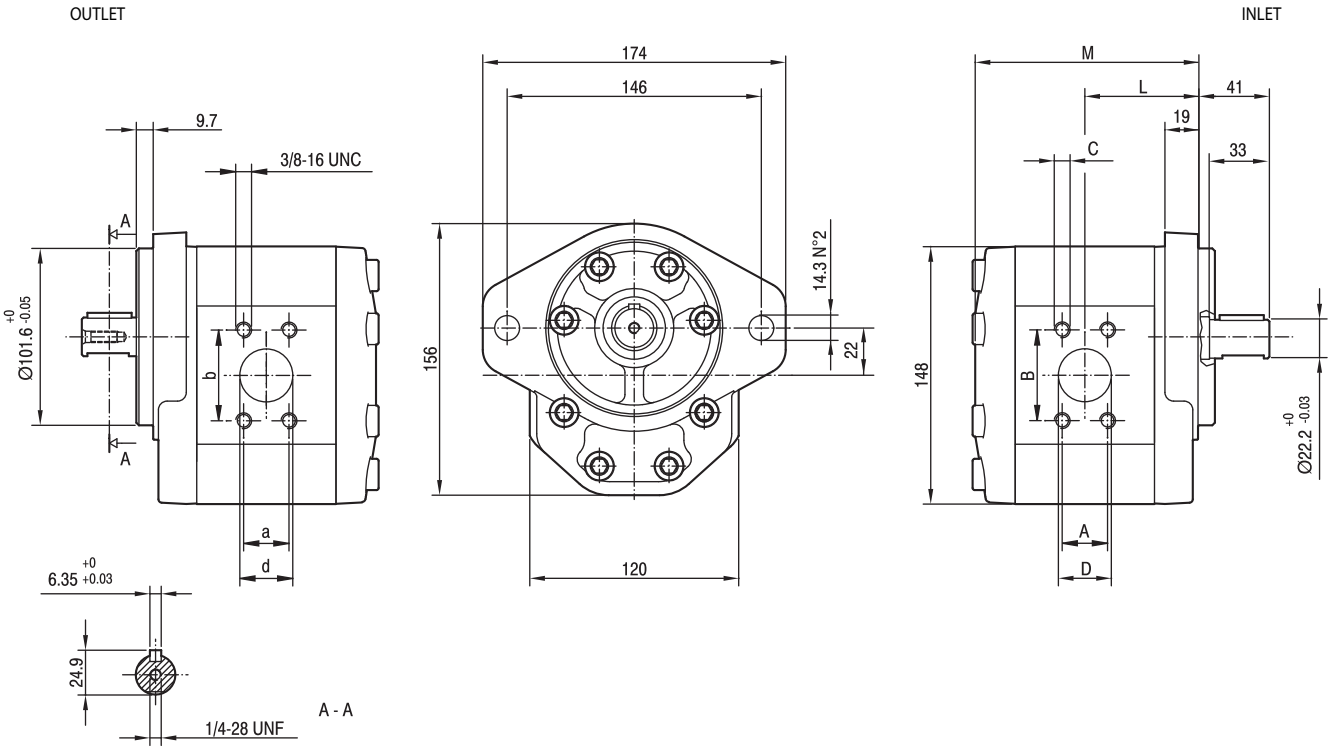


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

GHP3A Gear Pumps

SAE 'B' 2 Bolt Mount - 7/8" Straight Keyed Shaft - Cast Iron End Covers

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
GHP3AD40C1FA	26	1-5/16" UN	1-1/16" UN	67	132	3300	280	295	310	$ 848.00
GHP3AD50C1FA	33	1-5/16" UN	1-1/16" UN	69.5	137	3300	270	285	300	$ 848.00
GHP3AD60C1FA	39	1-5/8" UN	1-1/16" UN	71.5	141	3000	260	275	290	$ 848.00
GHP3AD66C1FA	44	1-5/8" UN	1-1/16" UN	73	144	2800	250	265	280	$ 869.00
GHP3AD80C1FA	52	1-5/8" UN	1-1/16" UN	76	150	2500	230	245	260	$ 869.00
GHP3AD94C1FA	61	1-7/8" UN	1-5/16" UN	79	156	2800	210	225	240	$ 890.00
GHP3AD110C1FA	71	1-7/8" UN	1-5/16" UN	82.5	163	2500	200	215	230	$ 942.00
GHP3AD120C1FA	78	1-7/8" UN	1-5/16" UN	85	168	2300	180	195	210	$ 942.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

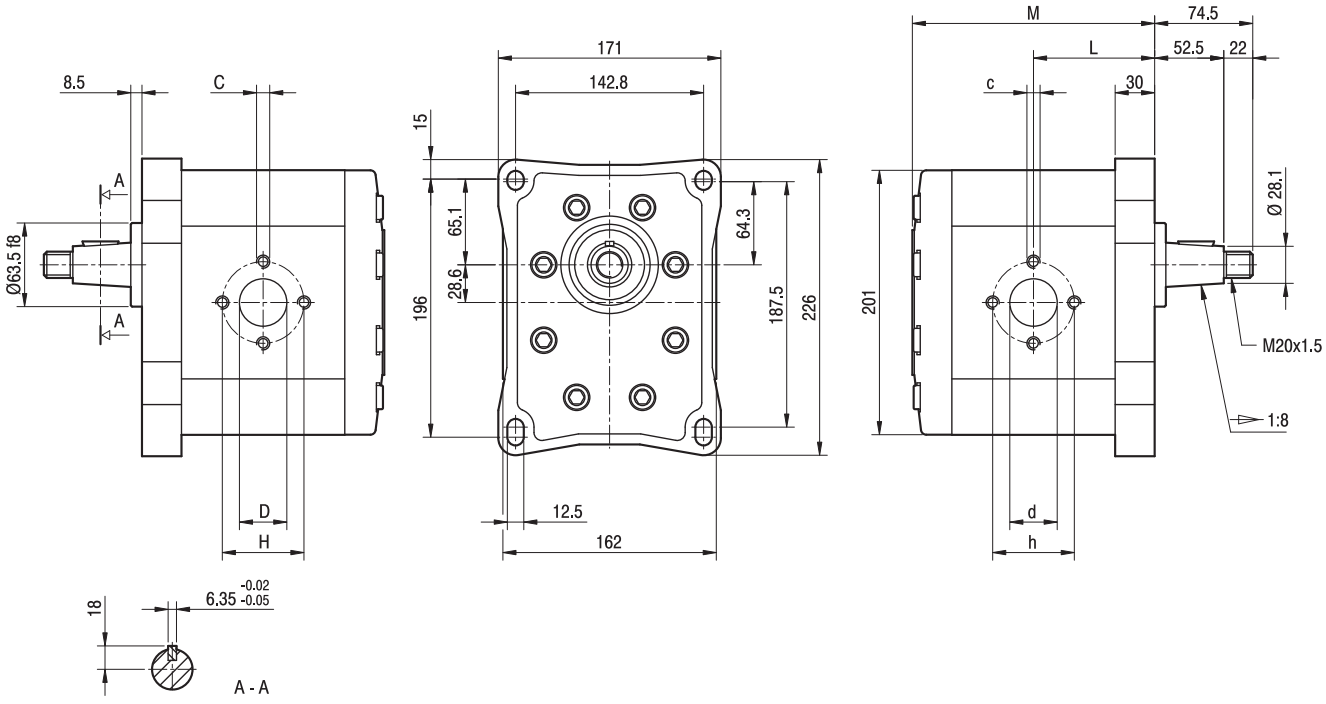
ALP4 Gear Pumps

ALP4 DIN Group 4 - 4 Bolt Mount - 1:8 Taper Shaft - Aluminium

Stock No.	Displacement	Flange Code E		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
ALP4D220	147	72.5 mm	62 mm	104.5	209	2200	170	190	210	$ 2500.00
ALP4D250	166	72.5 mm	62 mm	108.5	217	2000	160	170	190	$ 3000.00
ALP4D270	181	92 mm	72.5 mm	111.5	223	2400	140	150	170	$ 3000.00
ALP4D300	200	92 mm	72.5 mm	115.5	231	2400	130	140	150	$ 3000.00

OUTLET

INLET

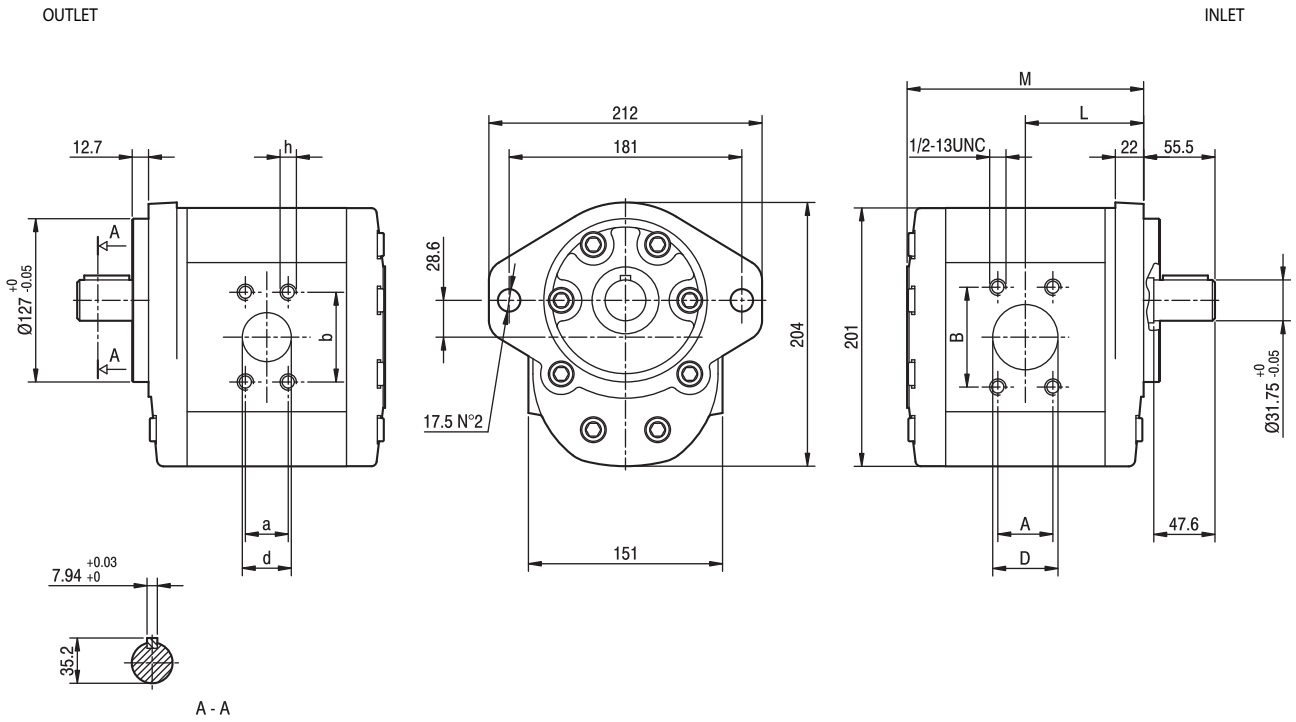


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

ALP4E Gear Pumps

SAE 'C' 2 Bolt Mount - 1-1/4" Straight Keyed Shaft - Aluminium End Covers

Stock No.	Displacement	Flange Code 61		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
ALP4ED130C0A	87	SAE 1-1/2"	SAE 1-1/4"	92	184	2800	240	260	280	$ 2140.00
ALP4ED160C0A	106	SAE 2"	SAE 1-1/2"	96	192	2300	200	220	240	$ 2140.00
ALP4ED190C0A	128	SAE 2"	SAE 1-1/2"	100	201	2500	180	200	220	$ 2197.00
ALP4ED220C0A	147	SAE 2"	SAE 1-1/2"	104	209	2200	170	190	210	$ 2197.00
ALP4ED250C0A	166	SAE 2"	SAE 1-1/2"	108	217	2000	160	170	190	$ 2302.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

CROSS

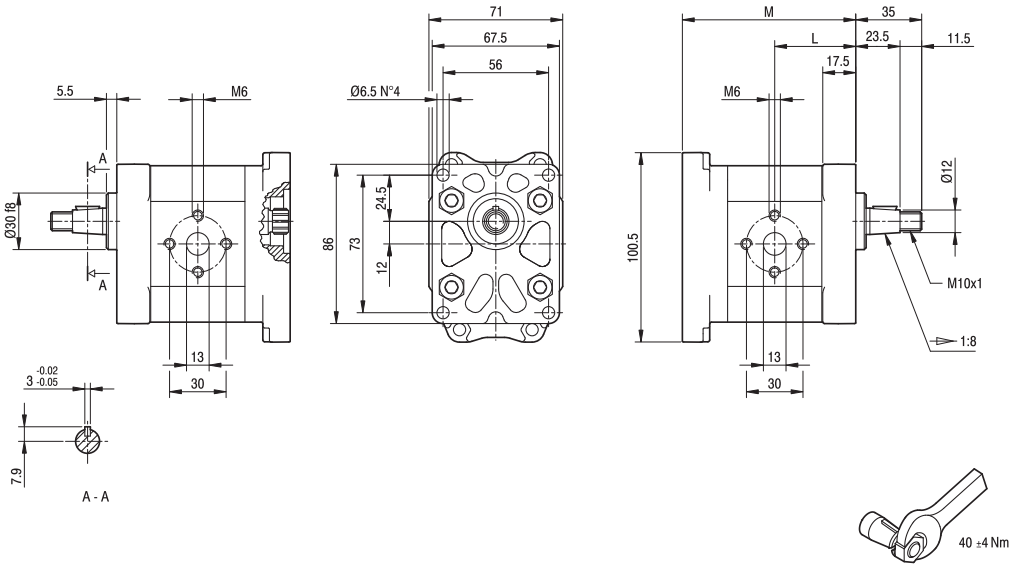
MARZOCCHI

ALP1 Modular Gear Pumps

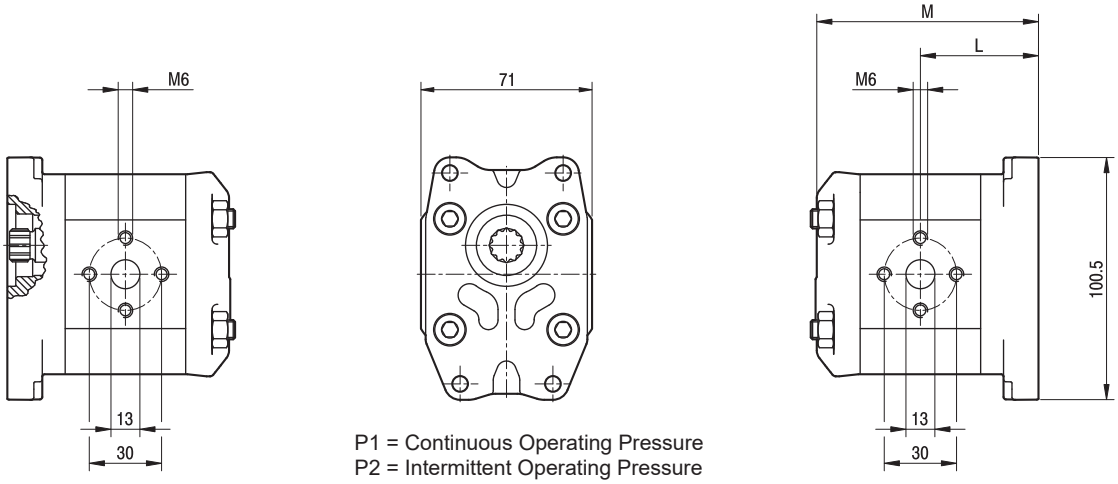
DIN Group 1 Heavy - 4 Bolt Mount - 1:8 Taper Shaft - Aluminium (Heavy)

Front Pump	Dimension mm		Rear Pump	Dimension mm		Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	L	M		L	M	cc/rev	Inlet	Outlet		P1	P2	P3	
ALPA1D2FG	40	86	ALPP1D2FG	48	86.5	1.4	1/2" BSPP	1/2" BSPP	6000	250	270	290	$ 367.00
ALPA1D3FG	41	88	ALPP1D3FG	47	88.5	2.1			6000	250	270	290	$ 367.00
ALPA1D4FG	42	90	ALPP1D4FG	48	90.5	2.8			5000	250	270	290	$ 367.00
ALPA1D5FG	43	92	ALPP1D5FG	49	92.5	3.5			5000	250	270	290	$ 367.00
ALPA1D6FG	44	94	ALPP1D6FG	50	94.5	4.1			4000	250	270	290	$ 367.00
ALPA1D7FG	45.5	97	ALPP1D7FG	51.5	97.5	5.2			4000	230	245	260	$ 367.00
ALPA1D9FG	47	100	ALPP1D9FG	53	100.5	6.2			3800	230	245	260	$ 367.00
ALPA1D11FG	49	104	ALPP1D11FG	55	104.5	7.6			3200	200	215	230	$ 367.00
ALPA1D13FG	51.5	109	ALPP1D13FG	57.5	109.5	9.3			2600	180	195	210	$ 367.00
650164			ALP1 to ALP1 Joining Kit										$ 35.00

ALPA1



ALPP1



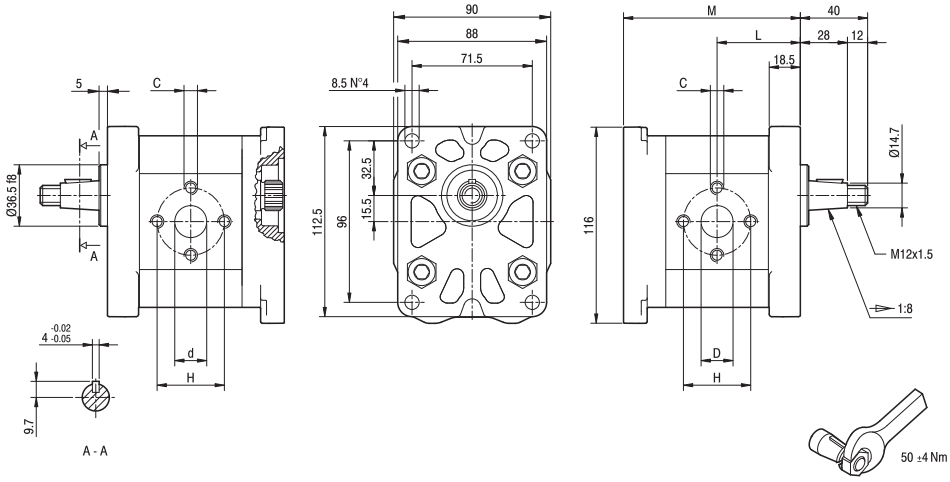
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

ALP2 Modular Gear Pumps

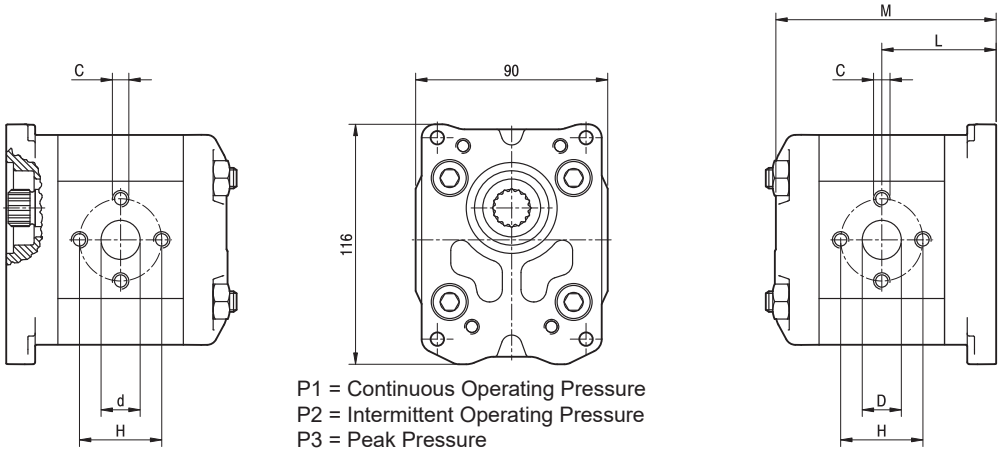
DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft - Aluminium

Front Pump	Dimension mm		Rear Pump	Dimension mm		Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	L	M		L	M	cc/rev	Inlet	Outlet		P1	P2	P3	
ALPA2D6FG	45.5	97	ALPP2D6FG	51.5	99.5	4.5	1/2" BSPP	1/2" BSPP	4000	250	270	290	$ 500.00
ALPA2D9FG	47	100	ALPP2D9FG	53	102.5	6.4			4000	250	270	290	$ 500.00
ALPA2D10FG	47.5	101	ALPP2D10FG	53.5	103.5	7.0			4000	250	270	290	$ 500.00
ALPA2D12FG	48.5	103	ALPP2D12FG	54.5	105.5	8.3			3500	250	270	290	$ 500.00
ALPA2D13FG	49.5	105	ALPP2D13FG	55.5	107.5	9.6			3000	250	270	290	$ 500.00
ALPA2D16FG	51	108	ALPP2D16FG	57	110.5	11.5			4000	230	250	270	$ 512.00
ALPA2D20FG	53	112	ALPP2D20FG	59	114.5	14.1	3/4" BSPP	1/2" BSPP	4000	230	250	270	$ 512.00
ALPA2D22FG	54.5	115	ALPP2D22FG	60.5	117.5	16.0			4000	210	225	240	$ 512.00
ALPA2D25FG	56	118	ALPP2D25FG	62	120.5	17.9			3600	210	225	240	$ 522.00
ALPA2D30FG	58.5	123	ALPP2D30FG	64.5	125.5	21.1			3200	180	195	210	$ 522.00
ALPA2D34FG	60.5	127	ALPP2D34FG	66.5	129.5	23.7			3000	180	195	210	$ 522.00
ALPA2D37FG	62	130	ALPP2D37FG	68	132.5	25.5			2800	170	185	200	$ 522.00
ALPA2D40FG	64	134	ALPP2D40FG	70	136.5	28.2			2500	170	185	200	$ 522.00
ALPA2D50FG	69.5	145	ALPP2D50FG	75.5	147.5	35.2			2500	140	155	170	$ 534.00
650167			ALP2 to ALP1 Joining Kit										$ 52.00
650168			ALP2 to ALP2 Joining Kit										$ 52.00

ALPA2



ALPP2



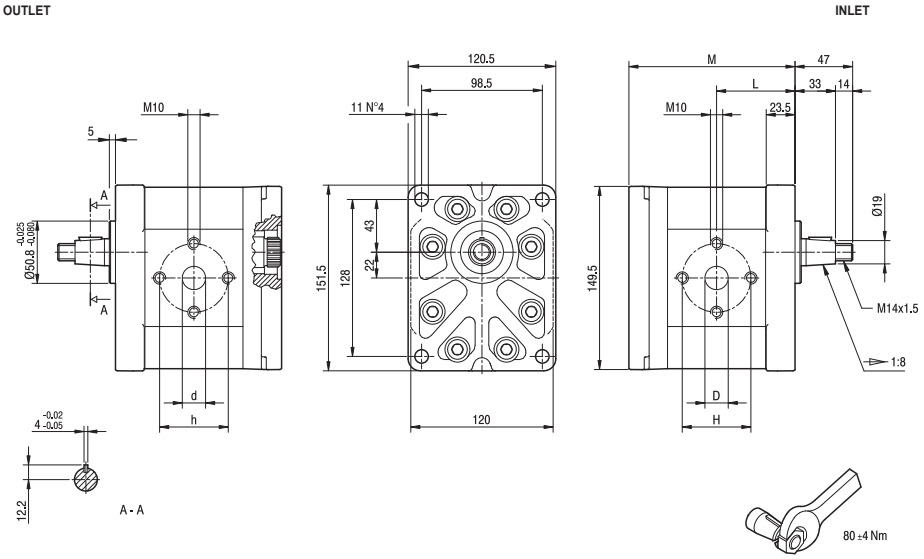
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

ALP3 Modular Gear Pumps

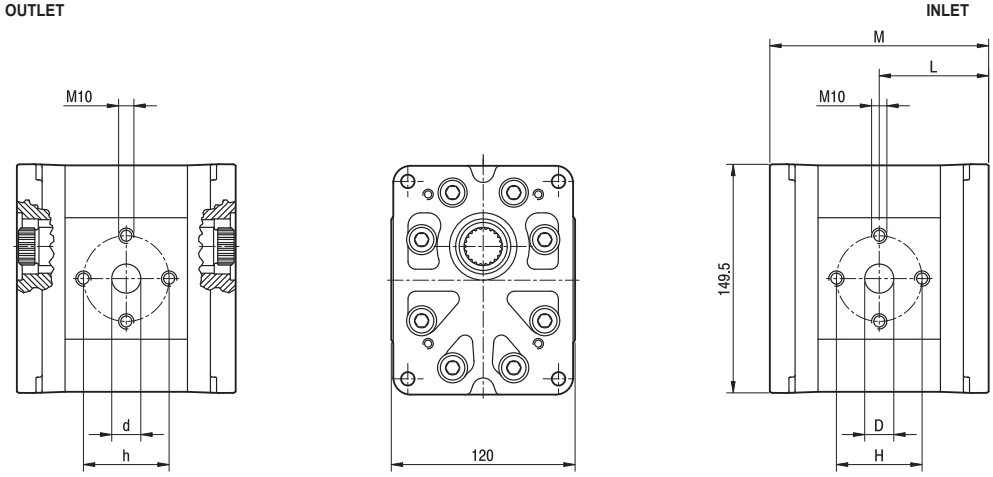
DIN Group 3 - 4 Bolt Mount - 1:8 Taper Shaft - Aluminium

Front Pump	Dimension mm		Rear Pump	Dimension mm		Displacement	Ports BSPP		Max. Speed RPM	Max. Pressure Bar			List Price
	L	M		L	M	cc/rev	Inlet	Outlet		P1	P2	P3	
ALPA3D30FG	64	135.5	ALPI330FG	72	143	20	3/4”	3/4”	3500	230	250	270	$ 890.00
ALPA3D33FG	64.5	136.5	ALPI333FG	72	144	22	3/4”	3/4”	3500	230	250	270	$ 890.00
ALPA3D40FG	66	139.5	ALPI340FG	74	147	26	1”	3/4”	3000	230	250	270	$ 890.00
ALPA3D50FG	69	144.5	ALPI350FG	76	152	33	1”	3/4”	3000	230	250	270	$ 890.00
ALPA3D60FG	71	148.5	ALPI360FG	78	156	39	1”	3/4”	3000	220	240	260	$ 890.00
ALPA3D66FG	72	156.5	ALPI366FG	80	159	44	1-1/4”	1”	2800	210	230	250	$ 890.00
650170			ALP3 to ALP2 Joining Kit										$ 85.00
650171			ALP3 to ALP3 Joining Kit										$ 85.00
601567R			GRP 3 Blanking Plate										$ 44.00
601566R			GRP 2 Blanking Plate										$ 44.00

ALPA3



ALPI3

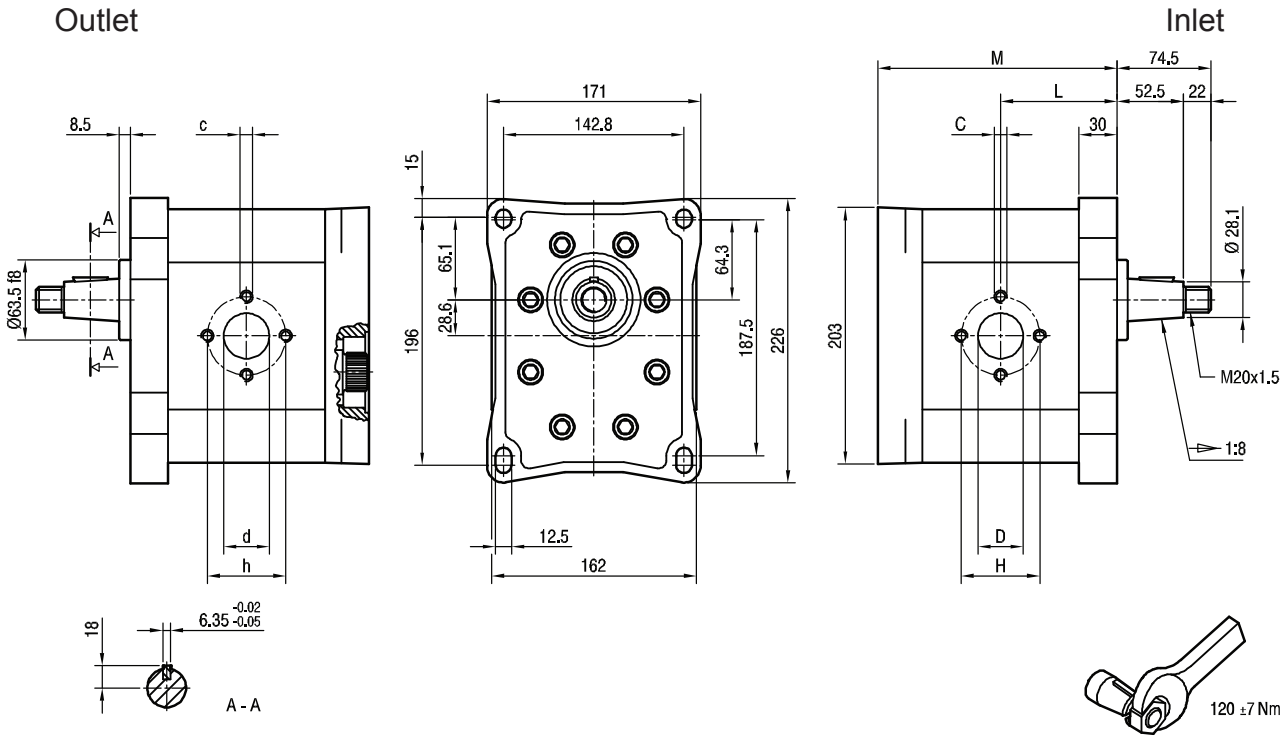


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

ALPA4 Modular Gear Pumps

Group 4 - 4 Bolt Mount - 1 : 8 Taper Shaft

Stock No.	Displacement	Flange Code E		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
ALPA4D130	87	62 mm	56 mm	92	195	2800	240	260	280	$ 2500.00
ALPA4D160	106	62 mm	56 mm	96	203	2300	200	220	240	$ 2500.00
ALPA4D190	128	72.5 mm	62 mm	100	212	2500	180	200	220	$ 2500.00
ALPA4D220	147	72.5 mm	62 mm	104	220	2200	170	190	210	$ 2600.00
ALPA4D250	166	72.5 mm	62 mm	108	228	2000	160	170	190	$ 2700.00
650173	ALPA4 to ALPP2 Joining Kit									$ 147.00
650174	ALPA4 to ALPI3 Joining Kit									$ 171.00

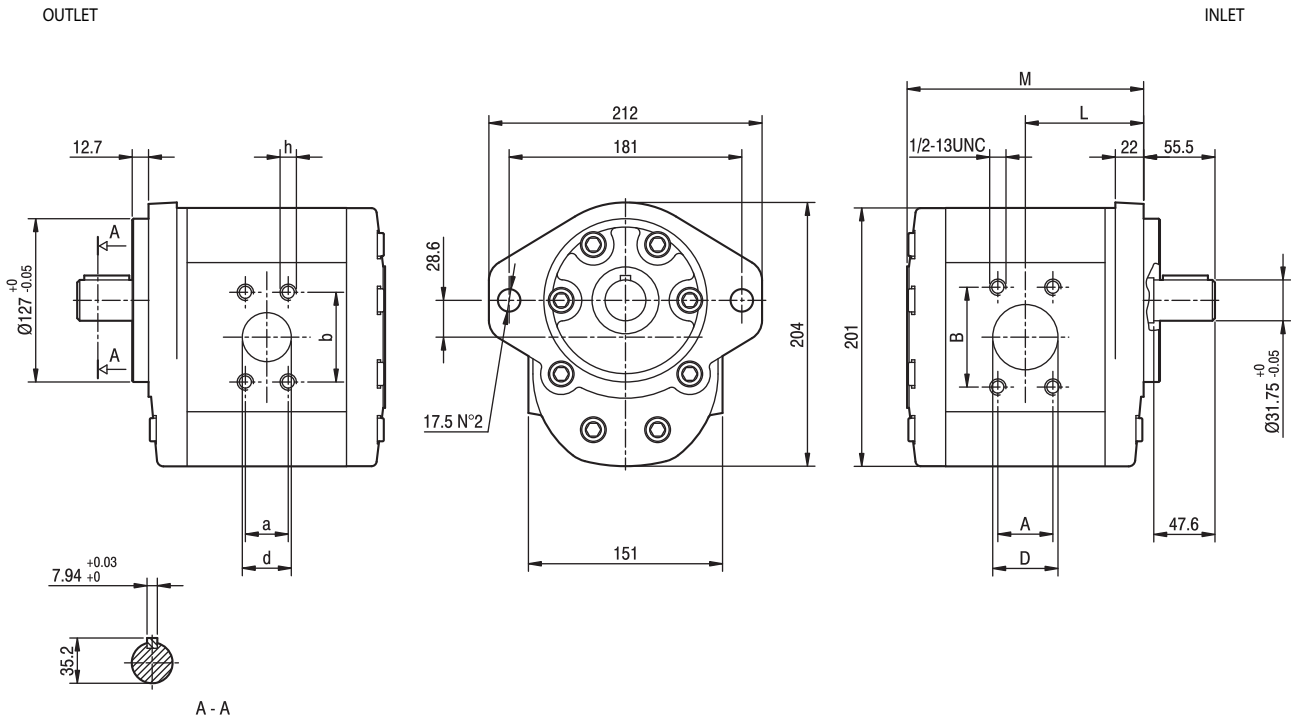


P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

ALPA4 Modular Gear Pumps

SAE 'C' 2 Bolt Mount - 1-1/4" Straight Keyed Shaft - Aluminium End Covers

Stock No.	Displacement	Flange Code 61		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2	P3	
ALPA4ED130C0A	87	SAE 1-1/2"	SAE 1-1/4"	92	184	2800	240	260	280	$ 2500.00
ALPA4ED160C0A	106	SAE 2"	SAE 1-1/2"	96	192	2300	200	220	240	$ 2500.00
ALPA4ED190C0A	128	SAE 2"	SAE 1-1/2"	100	201	2500	180	200	220	$ 2500.00
ALPA4ED220C0A	147	SAE 2"	SAE 1-1/2"	104	209	2200	170	190	210	$ 2600.00
ALPA4ED250C0A	166	SAE 2"	SAE 1-1/2"	108	217	2000	160	170	190	$ 2700.00
650173	ALPA4 to ALPP2 Joining Kit									$ 147.00
650174	ALPA4 to ALPI3 Joining Kit									$ 171.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

15PE Pumps G18P0 & P18P0

Aluminium Gear Pumps

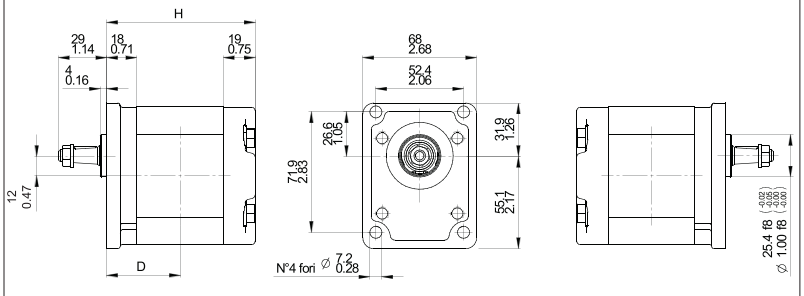
DIN Group 1 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers

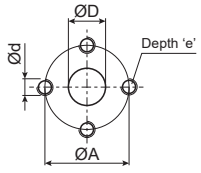
Displacement	Pressure
From 1.40 to 11.00 cc/rev	Up to 290 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
15PE14DG18P0	1.40	1/2” BSPP	3/8” BSPP	5000	250	270	290	$ 314.00
15PE21DG18P0	2.10			5000	250	270	290	$ 314.00
15PE28DG18P0	2.80			4500	250	270	290	$ 314.00
15PE35DG18P0	3.50			4500	250	270	290	$ 314.00
15PE41DG18P0	4.10			4000	250	270	290	$ 314.00
15PE52DG18P0	5.20			4000	230	250	270	$ 314.00
15PE62DG18P0	6.20			3600	230	250	270	$ 314.00
15PE76DG18P0	7.60	1/2” BSPP	1/2” BSPP	3300	200	220	250	$ 314.00
15PE93DG18P0	9.30			3000	180	200	240	$ 314.00
15PE110DG18P0	11.00			3000	170	190	220	$ 314.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
15PE14DP18P0	1.40	Refer to table below	Refer to table below	5000	250	270	290	$ 314.00
15PE21DP18P0	2.10			5000	250	270	290	$ 314.00
15PE28DP18P0	2.80			4500	250	270	290	$ 314.00
15PE35DP18P0	3.50			4500	250	270	290	$ 314.00
15PE41DP18P0	4.10			4000	250	270	290	$ 314.00
15PE52DP18P0	5.20			4000	230	250	270	$ 314.00
15PE62DP18P0	6.20			3600	230	250	270	$ 314.00
15PE76DP18P0	7.60			3300	200	220	250	$ 314.00
15PE93DP18P0	9.30			3000	180	200	240	$ 314.00
15PE110DP18P0	11.00			3000	170	190	220	$ 314.00

P18P0





TYPE	INLET				OUTLET			
	Ø D	Ø A	d	e	Ø D	Ø A	d	e
From 1.4 to 11	13	30	M6	13	12	30	M6	13
	0,51	*1,18*		*0,51*	*0,47*	*1,18*		*0,51*

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

Displacement		Dimensions			
cm³/ rev	cu.in./ rev	D		H	
		mm	in	mm	in
1.4	0.09	40	1.57	81.0	3.19
2.1	0.13	40.95	1.61	82.9	3.26
2.8	0.17	41.95	1.65	84.9	3.34
3.5	0.21	42.95	1.69	86.9	3.42
4.1	0.25	43.8	1.72	88.6	3.49
5.2	0.32	45.35	1.79	91.7	3.61
6.2	0.38	46.75	1.84	94.5	3.72
7.6	0.46	48.75	1.92	98.5	3.88
9.3	0.57	51.15	2.01	103.3	4.07
11	0.67	53.55	2.11	108.1	4.26

15PE Pumps R80S0 & R83S1

Aluminium Gear Pumps

SAE Group 1 - 2 & 4 Bolt AA Mount - Key Shaft - Cast Iron End Covers

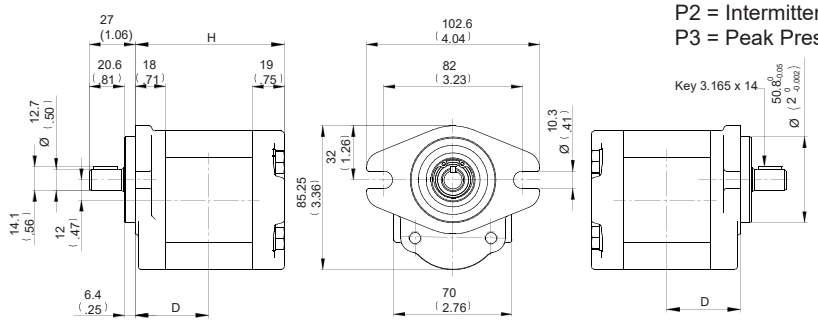
Displacement	Pressure
From 1.40 to 11.00 cc/rev	Up to 290 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
15PE14DR80S0	1.40	3/4" UNO	9/16" UNO	5000	250	270	290	$ 334.00
15PE21DR80S0	2.10			5000	250	270	290	$ 334.00
15PE28DR80S0	2.80			4500	250	270	290	$ 334.00
15PE35DR80S0	3.50			4500	250	270	290	$ 334.00
15PE41DR80S0	4.10			4000	250	270	290	$ 334.00
15PE52DR80S0	5.20			4000	230	250	270	$ 334.00
15PE62DR80S0	6.20			3600	230	250	270	$ 334.00
15PE76DR80S0	7.60	7/8" UNO	3/4" UNO	3300	200	220	250	$ 334.00
15PE93DR80S0	9.30			3000	180	200	240	$ 334.00
15PE110DR80S0	11.00			3000	170	190	220	$ 334.00

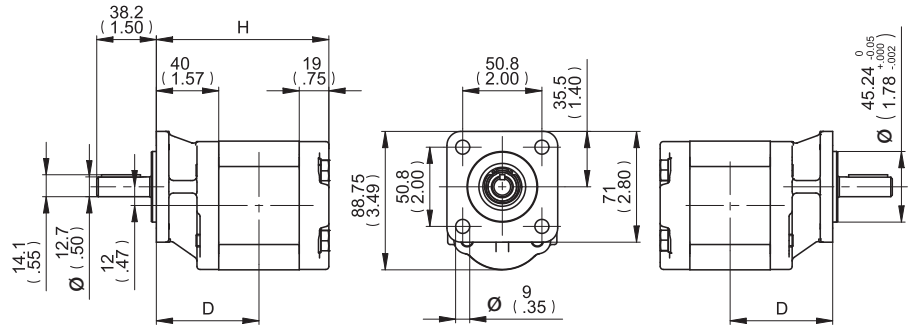
Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
15PE14DR83S1	1.40	3/4" UNO	9/16" UNO	5000	250	270	290	$ 334.00
15PE21DR83S1	2.10			5000	250	270	290	$ 334.00
15PE28DR83S1	2.80			4500	250	270	290	$ 334.00
15PE35DR83S1	3.50			4500	250	270	290	$ 334.00
15PE41DR83S1	4.10			4000	250	270	290	$ 334.00
15PE52DR83S1	5.20			4000	230	250	270	$ 334.00
15PE62DR83S1	6.20			3600	230	250	270	$ 334.00
15PE76DR83S1	7.60	7/8" UNO	3/4" UNO	3300	200	220	250	$ 334.00
15PE93DR83S1	9.30			3000	180	200	240	$ 334.00
15PE110DR83S1	11.00			3000	170	190	220	$ 334.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

R80S0



R83S1



15PE Pumps G59R, P59R, R59R

Aluminium Gear Pumps

Group 1 - Rear Pump Cast Iron End Covers - Tandem Plate Included

Displacement	Pressure
From 1.40 to 11.00 cc/rev	Up to 290 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
15PE14DG59R	1.40	1/2” BSPP	3/8” BSPP	5000	250	270	290	$ 314.00
15PE21DG59R	2.10			5000	250	270	290	$ 314.00
15PE28DG59R	2.80			4500	250	270	290	$ 314.00
15PE35DG59R	3.50			4500	250	270	290	$ 314.00
15PE41DG59R	4.10			4000	250	270	290	$ 314.00
15PE52DG59R	5.20			4000	230	250	270	$ 314.00
15PE62DG59R	6.20			3600	230	250	270	$ 314.00
15PE76DG59R	7.60	1/2” BSPP	1/2” BSPP	3300	200	220	250	$ 314.00
15PE93DG59R	9.30			3000	180	200	240	$ 314.00
15PE110DG59R	11.00			3000	170	190	220	$ 314.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
15PE14DP59R	1.40	Refer to table on following page.		5000	250	270	290	$ 314.00
15PE21DP59R	2.10			5000	250	270	290	$ 314.00
15PE28DP59R	2.80			4500	250	270	290	$ 314.00
15PE35DP59R	3.50			4500	250	270	290	$ 314.00
15PE41DP59R	4.10			4000	250	270	290	$ 314.00
15PE52DP59R	5.20			4000	230	250	270	$ 314.00
15PE62DP59R	6.20			3600	230	250	270	$ 314.00
15PE76DP59R	7.60			3300	200	220	250	$ 314.00
15PE93DP59R	9.30			3000	180	200	240	$ 314.00
15PE110DP59R	11.00			3000	170	190	220	$ 314.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
15PE14DR59R	1.40	3/4" UNO	9/16" UNO	5000	250	270	290	$ 314.00
15PE21DR59R	2.10			5000	250	270	290	$ 314.00
15PE28DR59R	2.80			4500	250	270	290	$ 314.00
15PE35DR59R	3.50			4500	250	270	290	$ 314.00
15PE41DR59R	4.10			4000	250	270	290	$ 314.00
15PE52DR59R	5.20			4000	230	250	270	$ 314.00
15PE62DR59R	6.20			3600	230	250	270	$ 314.00
15PE76DR59R	7.60	7/8" UNO	3/4" UNO	3300	200	220	250	$ 314.00
15PE93DR59R	9.30			3000	180	200	240	$ 314.00
15PE110DR59R	11.00			3000	170	190	220	$ 314.00

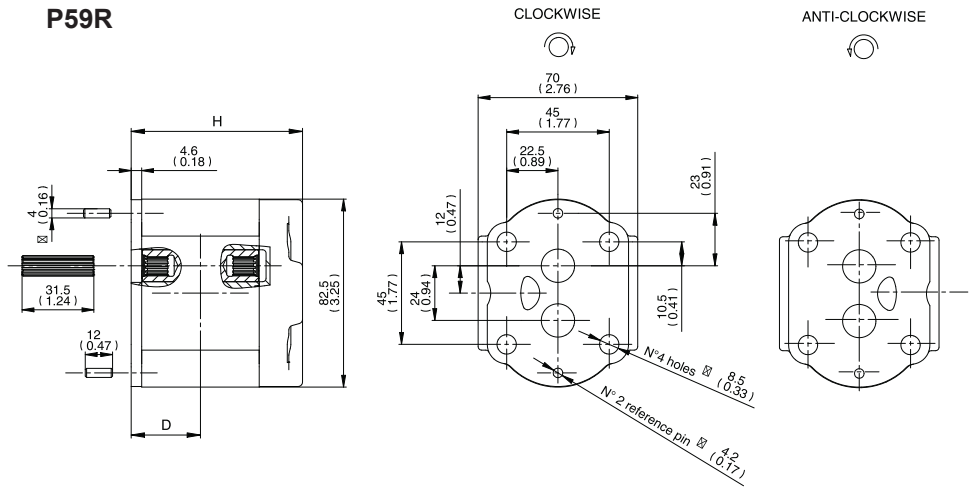
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

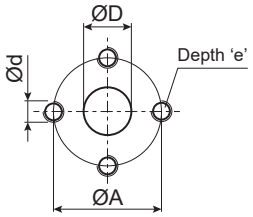
15PE Pumps G59R, P59R, R59R

Aluminium Gear Pumps

Group 1 - Rear Pump Cast Iron End Covers - Tandem Plate Included

P59R





TYPE	INLET				OUTLET			
	Ø D	Ø A	d	e	Ø D	Ø A	d	e
From 1.4 to 11	13	30	M6	13	12	30	M6	13
	0,51	*1,18*		*0,51*	*0,47*	*1,18*		*0,51*

Displacement		Dimensions			
cm³/ rev	cu.in./ rev	D		H	
		mm	in	mm	in
1.4	0.09	26.6	1.05	67.6	2.66
2.1	0.13	27.55	1.08	69.5	2.74
2.8	0.17	28.55	1.12	71.5	2.81
3.5	0.21	29.55	1.16	73.5	2.89
4.1	0.25	30.4	1.20	75.0	2.96
5.2	0.32	31.95	1.26	78.3	3.08
6.2	0.38	33.35	1.31	81.1	3.19
7.6	0.46	35.35	1.39	85.1	3.35
9.3	0.57	37.75	1.49	89.9	3.54
11	0.67	40.15	1.58	94.7	3.73

15PE Series Options and Accessories

Stock No.	Description	List Price
15PETANDEMKIT	Tandem Kit 15PE	$ 68.00
15PETIERODKITTANDEM	Tie Rod Kit Tandem	$ 20.00
15PETIERODKITTRIPPLE	Tie Rod Kit Triple	$ 20.00
15PESEALKIT	Pump Complete Seal Kit Suit 18P0	$ 40.00
15PESEALKITA	Pump Complete Seal Kit Suit 19P01,80S0,83S1	$ 40.00
15PESEALKITP0	Shaft Seal Kit NBR Suit Mount 18P0	$ 40.00
15PESEALKITS0S1	Shaft Seal Kit NBR Suit Mount 19P01,80S0,83S1	$ 40.00

2PE Pumps G28P1 & P28P1

Aluminium Gear Pumps

DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers

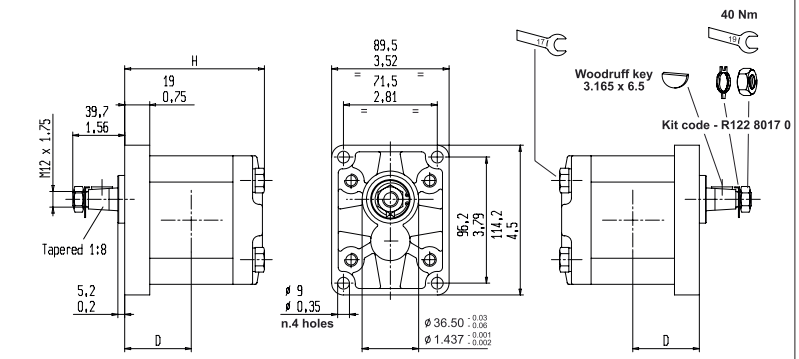
Displacement	Pressure
From 4.5 to 26.00 cc/rev	Up to 300 Bar

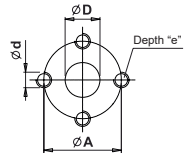
Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE4DG28P1	4.50	3/4" BSPP	1/2" BSPP	4000	250	280	300	$ 440.00
2PE6DG28P1	6.20			4000	250	280	300	$ 440.00
2PE8DG28P1	8.30			3500	250	280	300	$ 440.00
2PE11DG28P1	11.30			3500	250	280	300	$ 451.00
2PE14DG28P1	13.80			3500	250	280	300	$ 451.00
2PE16DG28P1	16.00			3000	250	280	300	$ 451.00
2PE19DG28P1	19.00			3000	220	240	260	$ 462.00
2PE22DG28P1	22.50			2750	200	220	240	$ 462.00
2PE26DG28P1	26.00			2500	180	200	220	$ 462.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE4DP28P1	4.50	Refer to table below	Refer to table below	4000	250	280	300	$ 440.00
2PE6DP28P1	6.20			4000	250	280	300	$ 440.00
2PE8DP28P1	8.30			3500	250	280	300	$ 440.00
2PE11DP28P1	11.30			3500	250	280	300	$ 451.00
2PE14DP28P1	13.80			3500	250	280	300	$ 451.00
2PE16DP28P1	16.00			3000	250	280	300	$ 451.00
2PE19DP28P1	19.00			3000	220	240	260	$ 462.00
2PE22DP28P1	22.50			2750	200	220	240	$ 462.00
2PE26DP28P1	26.00			2500	180	200	220	$ 462.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

P28P1





Type	INLET				OUTLET			
	ØD	ØA	d	e	ØD	ØA	d	e
From 3.2 to 8.3	13 (0.51")	30 (1.19")	M6	13 (0.51")	13 (0.51")	30 (1.19")	M6	13 (0.51")
From 11.3 to 22.5	20 (0.78")	40 (1.56")	M8					
26	22 (0.87")							

Displacement		Dimensions			
cm³/ rev	cu.in./ rev	D		H	
		mm	in	mm	in
4.5	0.27	42.55	1.67	90.1	3.55
6.2	0.40	42.55	1.67	90.1	3.55
8.3	0.50	45.4	1.79	95.8	3.77
11.3	0.68	47.15	1.86	102.7	4.04
13.8	0.84	48.85	1.92	106.5	4.19
16	1.01	50.70	1.99	110.5	4.35
19	1.15	52.75	2.08	118.6	4.66
22.5	1.37	59.50	2.34	124.0	4.88
26	1.58	62.40	2.46	129.8	5.11

2PE Pumps R82S2 & R85S2

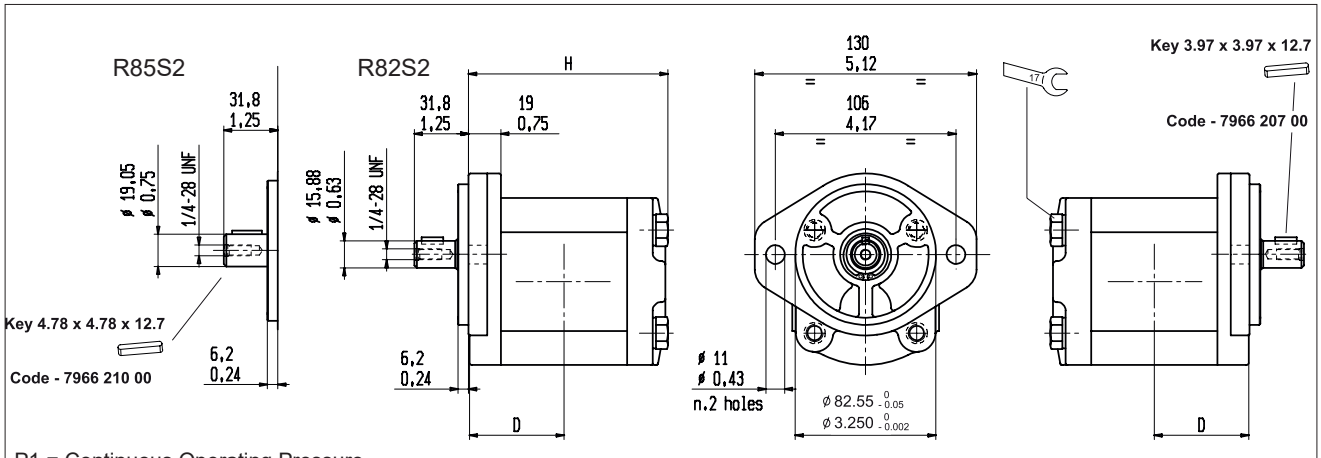
Aluminium Gear Pumps

SAE 'A' Group 2 - 2 Bolt Mount - 5/8" & 3/4" Straight Key Shaft - Cast Iron End Covers

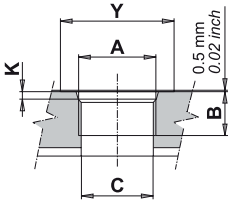
Displacement	Pressure
From 4.5 to 26.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE4DR82S2	4.50	1-1/16" UNO	7/8" UNO	4000	250	280	300	$ 440.00
2PE6DR82S2	6.20			4000	250	280	300	$ 440.00
2PE8DR82S2	8.30			3500	250	280	300	$ 440.00
2PE11DR82S2	11.30			3500	250	280	300	$ 451.00
2PE14DR82S2	13.80			3500	250	280	300	$ 451.00
2PE16DR82S2	16.00			3000	250	280	300	$ 451.00
2PE19DR82S2	19.00			3000	220	240	260	$ 462.00
2PE22DR82S2	22.50			2750	200	220	240	$ 462.00
2PE26DR82S2	26.00			2500	180	200	220	$ 462.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE6DR85S2	6.20	1-1/16" UNO	7/8" UNO	4000	250	280	300	$ 440.00
2PE8DR85S2	8.30			3500	250	280	300	$ 440.00
2PE11DR85S2	11.30			3500	250	280	300	$ 451.00
2PE14DR85S2	13.80			3500	250	280	300	$ 451.00
2PE16DR85S2	16.00			3000	250	280	300	$ 451.00
2PE19DR85S2	19.00			3000	220	240	260	$ 462.00
2PE22DR85S2	22.50			2750	200	220	240	$ 462.00
2PE26DR85S2	26.00			2500	180	200	220	$ 462.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



Type	INLET					OUTLET				
	A	B	ØC	Y	K	A	B	ØC	Y	K
From 3.2 to 26	1-1/16 UNF (SAE 12)	16 (0.62")	20 (0.78")	41 (1.61")	3.3 (0.12")	7/8 - 14 UNF (SAE 10)	14 (0.54")	13 (0.51")	34 (1.32")	2.5 (0.10")

2PE Pumps R52S2 & R54S2

Aluminium Gear Pumps

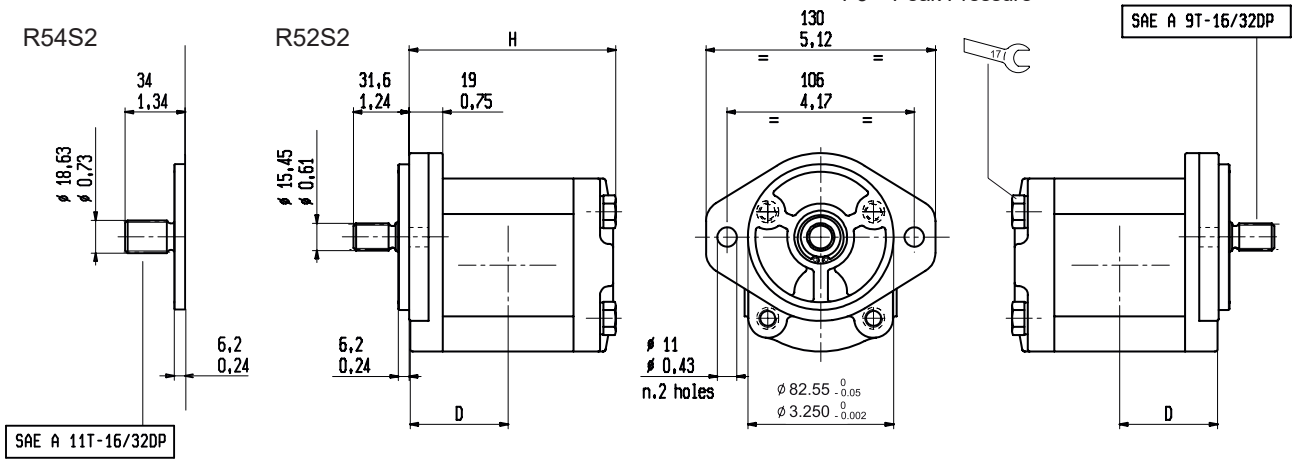
SAE 'A' Group 2 - 2 Bolt Mount - 5/8" 9T & 3/4" 11T Splined Shaft - Cast Iron End Covers

Displacement	Pressure
From 4.5 to 26.00 cc/rev	Up to 300 Bar

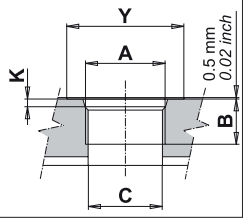
Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE4DR52S2	4.50	1-1/16" UNO	7/8" UNO	4000	250	280	300	$ 440.00
2PE6DR52S2	6.20			4000	250	280	300	$ 440.00
2PE8DR52S2	8.30			3500	250	280	300	$ 440.00
2PE11DR52S2	11.30			3500	250	280	300	$ 451.00
2PE14DR52S2	13.80			3500	250	280	300	$ 451.00
2PE16DR52S2	16.00			3000	250	280	300	$ 451.00
2PE19DR52S2	19.00			3000	220	240	260	$ 462.00
2PE22DR52S2	22.50			2750	200	220	240	$ 462.00
2PE26DR52S2	26.00			2500	180	200	220	$ 462.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE8DR54S2	8.30	1-1/16" UNO	7/8" UNO	3500	250	280	300	$ 440.00
2PE11DR54S2	11.30			3500	250	280	300	$ 451.00
2PE14DR54S2	13.80			3500	250	280	300	$ 451.00
2PE16DR54S2	16.00			3000	250	280	300	$ 451.00
2PE19DR54S2	19.00			3000	220	240	260	$ 462.00
2PE22DR54S2	22.50			2750	200	220	240	$ 462.00
2PE26DR54S2	26.00			2500	180	200	220	$ 462.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



Type	INLET					OUTLET				
	A	B	ØC	Y	K	A	B	ØC	Y	K
From 3.2 to 26	1-1/16 UNF (SAE 12)	16 (0.62")	20 (0.78")	41 (1.61")	3.3 (0.12")	7/8 - 14 UNF (SAE 10)	14 (0.54")	13 (0.51")	34 (1.32")	2.5 (0.10")



2PE Pumps P60R & G60R

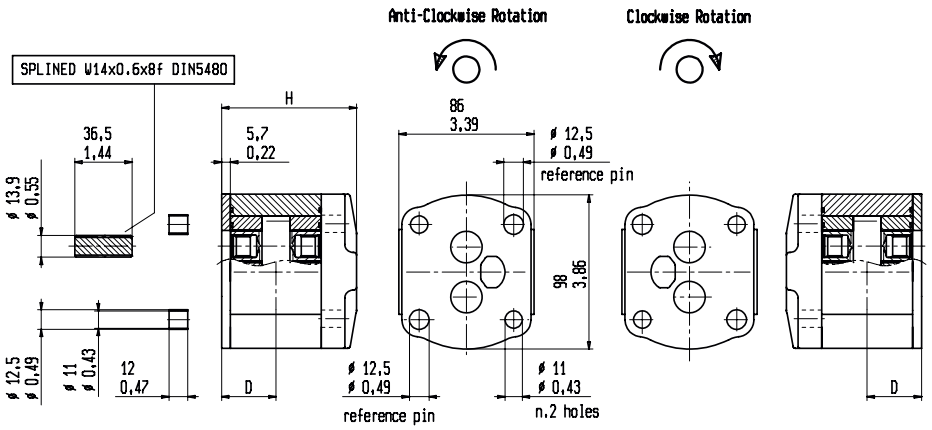
Aluminium Gear Pumps

Group 2 - Rear Pump Cast Iron End Covers - Tandem Plate Included

Displacement	Pressure
From 4.5 to 26.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE4DP60R	4.50	Refer to table	Refer to table	4000	250	280	300	$ 440.00
2PE6DP60R	6.20			4000	250	280	300	$ 440.00
2PE8DP60R	8.30			3500	250	280	300	$ 440.00
2PE11DP60R	11.30			3500	250	280	300	$ 451.00
2PE14DP60R	13.80			3500	250	280	300	$ 451.00
2PE16DP60R	16.00			3000	250	280	300	$ 451.00
2PE19DP60R	19.00			3000	220	240	260	$ 462.00
2PE22DP60R	22.50			2750	200	220	240	$ 462.00
2PE26DP60R	26.00			2500	180	200	220	$ 462.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE4DG60R	4.50	3/4" BSPP	1/2" BSPP	4000	250	280	300	$ 440.00
2PE6DG60R	6.20			4000	250	280	300	$ 440.00
2PE8DG60R	8.30			3500	250	280	300	$ 440.00
2PE11DG60R	11.30			3500	250	280	300	$ 451.00
2PE14DG60R	13.80			3500	250	280	300	$ 451.00
2PE16DG60R	16.00			3000	250	280	300	$ 451.00
2PE19DG60R	19.00			3000	220	240	260	$ 462.00
2PE22DG60R	22.50			2750	200	220	240	$ 462.00
2PE26DG60R	26.00			2500	180	200	220	$ 462.00



Displacement		Dimensions			
cm³/rev	cu.in./rev	D		H	
		mm	in	mm	in
4.5	0.27	29.25	1.15	75.3	2.96
6.2	0.40	29.25	1.15	75.3	2.96
8.3	0.50	32.10	1.26	81.0	3.19
11.3	0.68	35.50	1.39	87.9	3.46
13.8	0.84	37.45	1.47	91.7	3.61
16	1.01	39.45	1.55	95.7	3.77
19	1.15	43.50	1.71	103.8	4.09
22.5	1.37	46.20	1.82	109.2	4.30
26	1.58	49.10	1.93	115.0	4.53

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

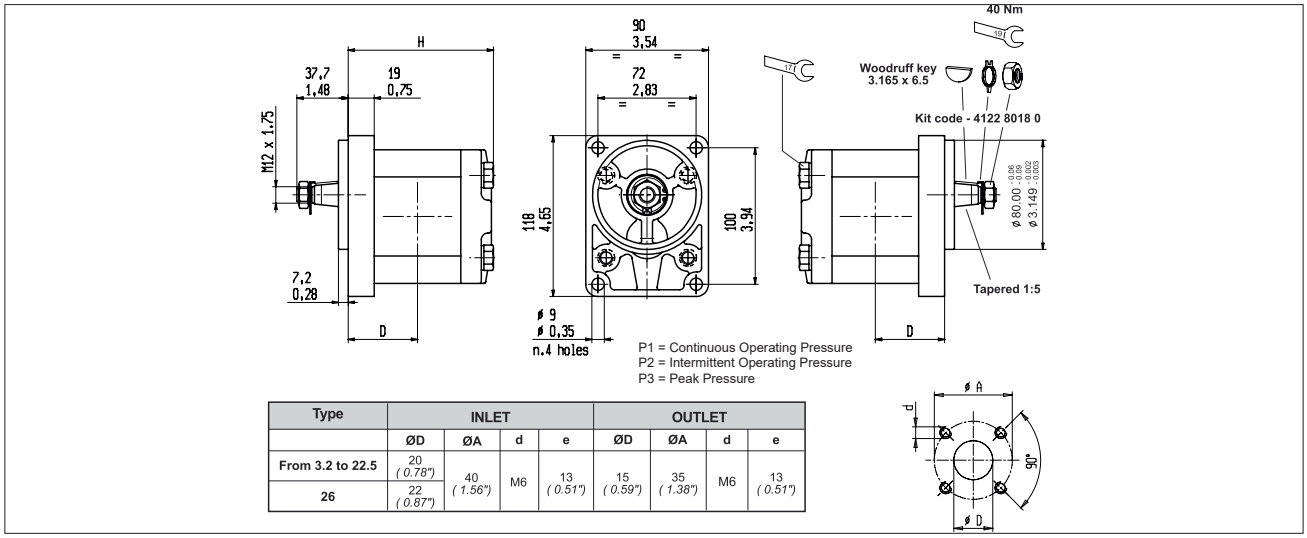
2PE Pumps B25B1

Aluminium Gear Pumps

Group 2 - 4 Bolt Bosch Mount - 1:5 Taper Shaft - Cast Iron End Covers

Displacement	Pressure
From 4.5 to 26.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PE4DB25B1	4.50	3/4" BSPP	1/2" BSPP	4000	250	280	300	$ 440.00
2PE6DB25B1	6.20			4000	250	280	300	$ 440.00
2PE8DB25B1	8.30			3500	250	280	300	$ 440.00
2PE11DB25B1	11.30			3500	250	280	300	$ 451.00
2PE14DB25B1	13.80			3500	250	280	300	$ 451.00
2PE16DB25B1	16.00			3000	250	280	300	$ 451.00
2PE19DB25B1	19.00			3000	220	240	260	$ 462.00
2PE22DB25B1	22.50			2750	200	220	240	$ 462.00
2PE26DB25B1	26.00			2500	180	200	220	$ 462.00



Type	INLET				OUTLET			
	ØD	ØA	d	e	ØD	ØA	d	e
From 3.2 to 22.5	20 (0.78")	40 (1.56")	M6	13 (0.51")	15 (0.59")	35 (1.38")	M6	13 (0.51")
26	22 (0.87")							

2PE Series Options and Accessories

Stock No.	Description	List Price
2PETANDEMKIT	Tandem Kit 2PE	$ 85.00
412090043	Tandem Kit 2PE-15PE	$ 150.00
412090044	Tandem Kit 2PE-15PE Right Hand Common Suction	$ 150.00
412090045	Tandem Kit 2PE-15PE Left Hand Common Suction	$ 150.00
R12275013	Cover c/w Relief Valve 15-30bar	$ 150.00
R12275020	Cover c/w Relief Valve 31-60bar	$ 150.00
R12275040	Cover c/w Relief Valve 61-120bar	$ 150.00
R12275050	Cover c/w Relief Valve 121-170bar	$ 150.00
R12275060	Cover c/w Relief Valve 171-250bar	$ 150.00
2PESEALKIT	Pump Complete Seal Kit suit 28P1,25B1,82S2,52S2	$ 85.00
2PESHAFTSEALKIT	Shaft Seal Kit suit 28P1,25B1,82S2,52S2	$ 50.00
2PESEALKIT5485S2	Pump Complete Seal Kit suit 85S2,54S2	$ 100.00
2PESHAFTSEALKIT5485S2	Shaft Seal Kit suit 85S2,54S2	$ 60.00
2PESEALKITVITON	Pump Complete Seal Kit Viton suit 28P1,25B1,82S2,52S2	$ 100.00
2PESEALKITVITON5485S2	Pump Complete Seal Kit Viton suit 85S2,54S2	$ 120.00

25PE Pumps G38P2 & P38P2

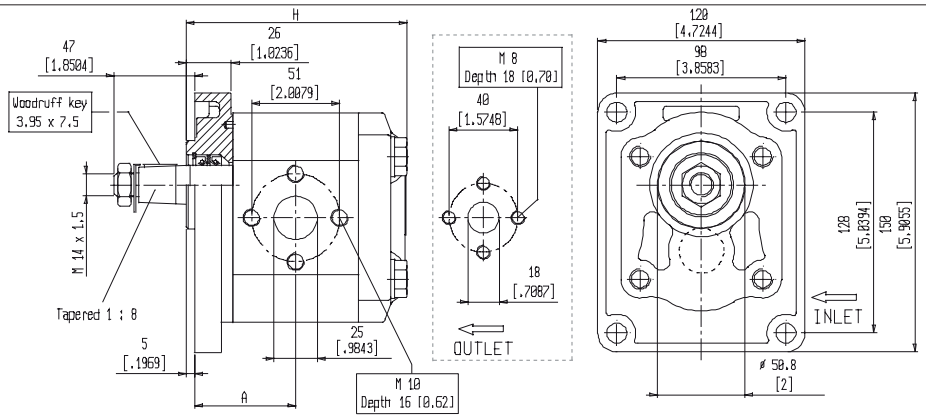
Aluminium Gear Pumps

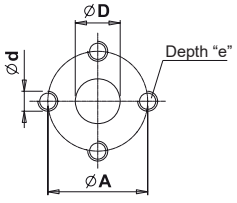
DIN Group 2.5 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers

Displacement	Pressure
From 11.5 to 44.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE11DG38P2	11.50	3/4" BSPP	1/2" BSPP	3000	250	280	300	$ 600.00
25PE14DG38P2	13.80			3000	250	280	300	$ 600.00
25PE16DG38P2	16.00			3000	250	280	300	$ 600.00
25PE19DG38P2	19.30			3000	250	280	300	$ 600.00
25PE22DG38P2	22.00			3000	250	280	300	$ 700.00
25PE25DG38P2	25.20	1" BSPP	3/4" BSPP	3000	250	280	300	$ 700.00
25PE28DG38P2	28.00			3000	250	280	300	$ 800.00
25PE32DG38P2	32.00			3000	230	250	260	$ 800.00
25PE38DG38P2	38.00			2750	200	220	240	$ 800.00
25PE44DG38P2	44.00			2500	170	190	210	$ 800.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE11DP38P2	11.50	Refer to table below	Refer to table below	3000	250	280	300	$ 600.00
25PE14DP38P2	13.80			3000	250	280	300	$ 600.00
25PE16DP38P2	16.00			3000	250	280	300	$ 600.00
25PE19DP38P2	19.30			3000	250	280	300	$ 600.00
25PE22DP38P2	22.00			3000	250	280	300	$ 700.00
25PE25DP38P2	25.20			3000	250	280	300	$ 700.00
25PE28DP38P2	28.00			3000	250	280	300	$ 800.00
25PE32DP38P2	32.00			3000	230	250	260	$ 800.00
25PE38DP38P2	38.00			2750	200	220	240	$ 800.00
25PE44DP38P2	44.00			2500	170	190	210	$ 800.00





P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

Type	OUTLET / INLET				INLET / OUTLET			
	ØD	ØA	d	e	ØD	ØA	d	e
From 5.5 to 8.3	13 (0.51")	30 (1.18")	M6	13 (0.51")	13 (0.51")	30 (1.18")	M6	13 (0.51")
From 11.5 to 19	20 (0.78")	40 (1.56")	M8	13 (0.51")	13 (0.51")	30 (1.18")	M6	13 (0.51")
From 22 to 44	25 (0.97")	51 (2.01")	M10	16 (0.62")	18 (0.70")	40 (1.56")	M8	18 (0.70")

25PE Pumps G87S3 & R87S3

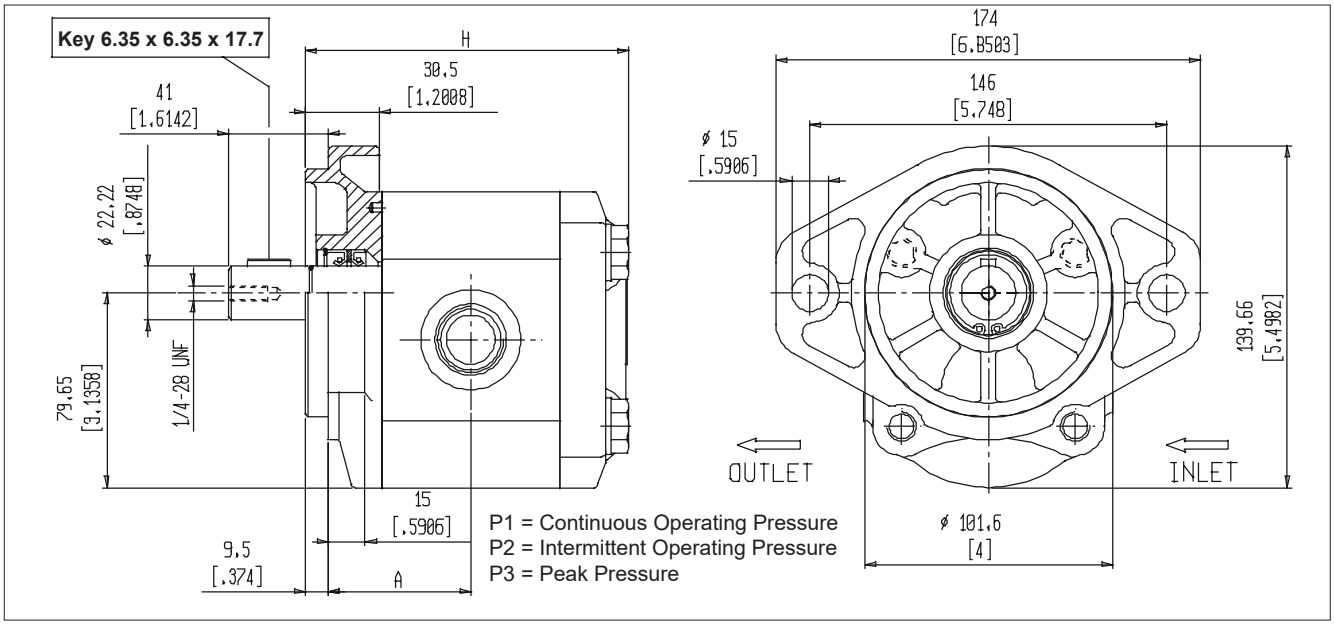
Aluminium Gear Pumps

SAE 'B' - 2 Bolt Mount - 7/8" Straight Keyed - Cast Iron End Covers

Displacement	Pressure
From 11.5 to 44.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE11DG87S3	11.50	3/4" BSPP	1/2" BSPP	3000	250	280	300	$ 600.00
25PE14DG87S3	13.80			3000	250	280	300	$ 600.00
25PE16DG87S3	16.00			3000	250	280	300	$ 600.00
25PE19DG87S3	19.30			3000	250	280	300	$ 600.00
25PE22DG87S3	22.00			3000	250	280	300	$ 700.00
25PE25DG87S3	25.20	1" BSPP	3/4" BSPP	3000	250	280	300	$ 700.00
25PE28DG87S3	28.00			3000	250	280	300	$ 800.00
25PE32DG87S3	32.00			3000	230	250	260	$ 800.00
25PE38DG87S3	38.00			2750	200	220	240	$ 800.00
25PE44DG87S3	44.00			2500	170	190	210	$ 800.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE11DR87S3	11.50	1-1/16" UNO	7/8" UNO	3000	250	280	300	$ 600.00
25PE14DR87S3	13.80			3000	250	280	300	$ 600.00
25PE16DR87S3	16.00			3000	250	280	300	$ 600.00
25PE19DR87S3	19.30			3000	250	280	300	$ 600.00
25PE22DR87S3	22.00			3000	250	280	300	$ 700.00
25PE25DR87S3	25.20	1-5/16" UNO	1-1/16" UNO	3000	250	280	300	$ 700.00
25PE28DR87S3	28.00			3000	250	280	300	$ 800.00
25PE32DR87S3	32.00			3000	230	250	260	$ 800.00
25PE38DR87S3	38.00			2750	200	220	240	$ 800.00
25PE44DR87S3	44.00			2500	170	190	210	$ 800.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

25PE Pumps G55S3 & R55S3

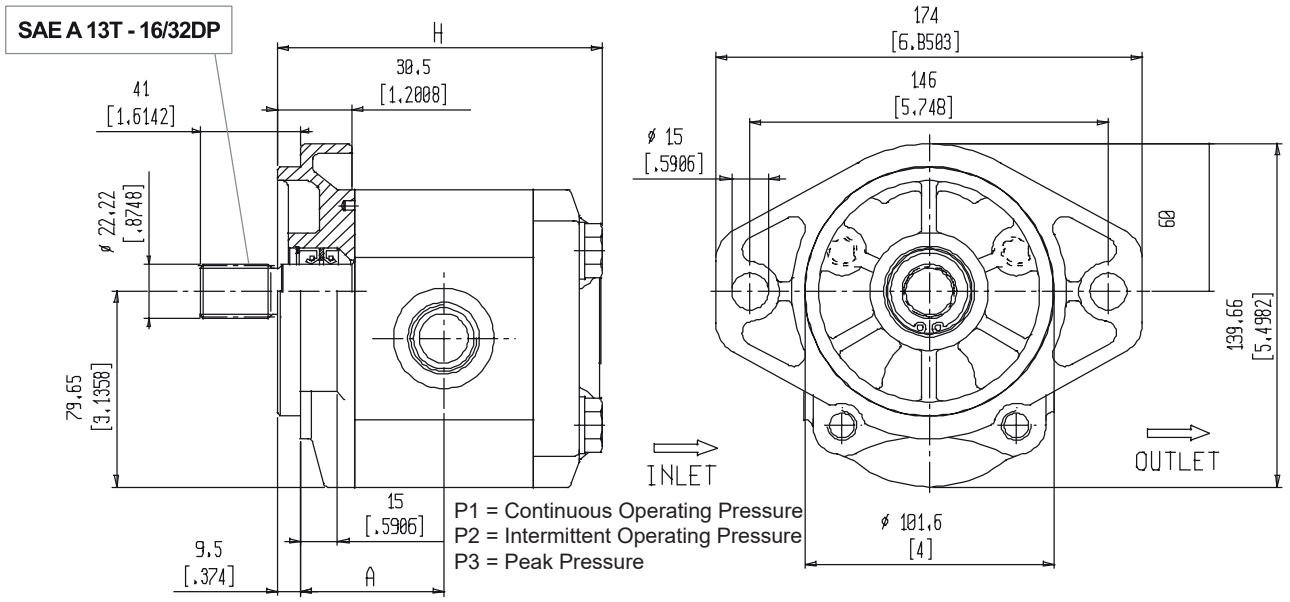
Aluminium Gear Pumps

SAE 'B' - 2 Bolt Mount - 13T Splined Shaft - Cast Iron End Covers

Displacement	Pressure
From 11.5 to 44.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE11DG55S3	11.50	3/4" BSPP	1/2" BSPP	3000	250	280	300	$ 600.00
25PE14DG55S3	13.80			3000	250	280	300	$ 600.00
25PE16DG55S3	16.00			3000	250	280	300	$ 600.00
25PE19DG55S3	19.30			3000	250	280	300	$ 600.00
25PE22DG55S3	22.00			3000	250	280	300	$ 700.00
25PE25DG55S3	25.20	1" BSPP	3/4" BSPP	3000	250	280	300	$ 700.00
25PE28DG55S3	28.00			3000	250	280	300	$ 800.00
25PE32DG55S3	32.00			3000	230	250	260	$ 800.00
25PE38DG55S3	38.00			2750	200	220	240	$ 800.00
25PE44DG55S3	44.00			2500	170	190	210	$ 800.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE11DR55S3	11.50	1-1/16" UNO	7/8" UNO	3000	250	280	300	$ 600.00
25PE14DR55S3	13.80			3000	250	280	300	$ 600.00
25PE16DR55S3	16.00			3000	250	280	300	$ 600.00
25PE19DR55S3	19.30			3000	250	280	300	$ 600.00
25PE22DR55S3	22.00			3000	250	280	300	$ 700.00
25PE25DR55S3	25.20	1-5/16" UNO	1-1/16" UNO	3000	250	280	300	$ 700.00
25PE28DR55S3	28.00			3000	250	280	300	$ 800.00
25PE32DR55S3	32.00			3000	230	250	260	$ 800.00
25PE38DR55S3	38.00			2750	200	220	240	$ 800.00
25PE44DR55S3	44.00			2500	170	190	210	$ 800.00



25PE Pumps G54S2 & R54S2

Aluminium Gear Pumps

SAE 'A' - 2 Bolt Mount - 3/4" 11T Splined Shaft - Cast Iron End Covers

Displacement	Pressure
From 11.5 to 44.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE11DG54S2	11.50	3/4" BSPP	1/2" BSPP	3000	250	280	300	$ 600.00
25PE14DG54S2	13.80			3000	250	280	300	$ 600.00
25PE16DG54S2	16.00			3000	250	280	300	$ 600.00
25PE19DG54S2	19.30			3000	250	280	300	$ 600.00
25PE22DG54S2	22.00			3000	250	280	300	$ 700.00
25PE25DG54S2	25.20	1" BSPP	3/4" BSPP	3000	250	280	300	$ 700.00
25PE28DG54S2	28.00			3000	250	280	300	$ 800.00
25PE32DG54S2	32.00			3000	230	250	260	$ 800.00
25PE38DG54S2	38.00			2750	200	220	240	$ 800.00
25PE44DG54S2	44.00			2500	170	190	210	$ 800.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE11DR54S2	11.50	1-1/16" UNO	7/8" UNO	3000	250	280	300	$ 600.00
25PE14DR54S2	13.80			3000	250	280	300	$ 600.00
25PE16DR54S2	16.00			3000	250	280	300	$ 600.00
25PE19DR54S2	19.30			3000	250	280	300	$ 600.00
25PE22DR54S2	22.00			3000	250	280	300	$ 700.00
25PE25DR54S2	25.20	1-5/16" UNO	1-1/16" UNO	3000	250	280	300	$ 700.00
25PE28DR54S2	28.00			3000	250	280	300	$ 800.00
25PE32DR54S2	32.00			3000	230	250	260	$ 800.00
25PE38DR54S2	38.00			2750	200	220	240	$ 800.00
25PE44DR54S2	44.00			2500	170	190	210	$ 800.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

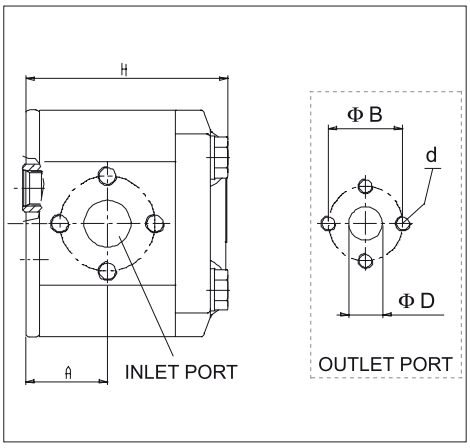
25PE Pumps P64R, G64R & R64R

Aluminium Gear Pumps

REAR PUMP - DIN5480 N18X1X9H Splined Shaft - Cast Iron End Cover

Displacement	Pressure
From 5.5 to 44.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE5DP64R	5.50	Refer to Table Below	Refer to Table Below	3000	250	280	300	$ 600.00
25PE8DP64R	8.30			3000	250	280	300	$ 600.00
25PE11DP64R	11.50			3000	250	280	300	$ 600.00
25PE14DP64R	13.80			3000	250	280	300	$ 600.00
25PE16DP64R	16.00			3000	250	280	300	$ 600.00
25PE19DP64R	19.30			3000	250	280	300	$ 600.00
25PE22DP64R	22.00			3000	250	280	300	$ 700.00
25PE25DP64R	25.20			3000	250	280	300	$ 700.00
25PE28DP64R	28.00			3000	250	280	300	$ 800.00
25PE32DP64R	32.00			3000	230	250	260	$ 800.00
25PE38DP64R	38.00			2750	200	220	240	$ 800.00
25PE44DP64R	44.00			2500	170	190	210	$ 800.00



Displacement		INLET Port					OUTLET Port				
cm³/rev	cu.in./rev	Ø B		Ø D		d	Ø B		Ø D		d
		mm	in	mm	in		mm	in	mm	in	
5.5	0.21	30	1.18	13	.51	M6	30	1.18	13	0.51	M6
8.3	0.32	30	1.18	13	.51	M6	30	1.18	13	0.51	M6
11.5	0.45	40	1.57	20	0.78	M8	30	1.18	13	0.51	M6
13.8	0.54	40	1.57	20	0.78	M8	30	1.18	13	0.51	M6
16	0.97	40	1.57	20	0.78	M8	30	1.18	13	0.51	M6
19	1.17	40	1.57	20	0.78	M8	30	1.18	13	0.51	M6
22	1.35	51	2.00	27	1.06	M10	40	1.57	20	0.78	M8
25	1.53	51	2.00	27	1.06	M10	40	1.57	20	0.78	M8
28	1.68	51	2.00	27	1.06	M10	40	1.57	20	0.78	M8
32	1.97	51	2.00	27	1.06	M10	40	1.57	20	0.78	M8
38	2.32	51	2.00	27	1.06	M10	40	1.57	20	0.78	M8
44	2.69	51	2.00	27	1.06	M10	40	1.57	20	0.78	M8

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE5DG64R	5.50	3/4" BSPP	1/2" BSPP	3000	250	280	300	$ 600.00
25PE8DG64R	8.30			3000	250	280	300	$ 600.00
25PE11DG64R	11.50			3000	250	280	300	$ 600.00
25PE14DG64R	13.80			3000	250	280	300	$ 600.00
25PE16DG64R	16.00			3000	250	280	300	$ 600.00
25PE19DG64R	19.30			3000	250	280	300	$ 600.00
25PE22DG64R	22.00			3000	250	280	300	$ 700.00
25PE25DG64R	25.20	1" BSPP	3/4" BSPP	3000	250	280	300	$ 700.00
25PE28DG64R	28.00			3000	250	280	300	$ 800.00
25PE32DG64R	32.00			3000	230	250	260	$ 800.00
25PE38DG64R	38.00			2750	200	220	240	$ 800.00
25PE44DG64R	44.00			2500	170	190	210	$ 800.00

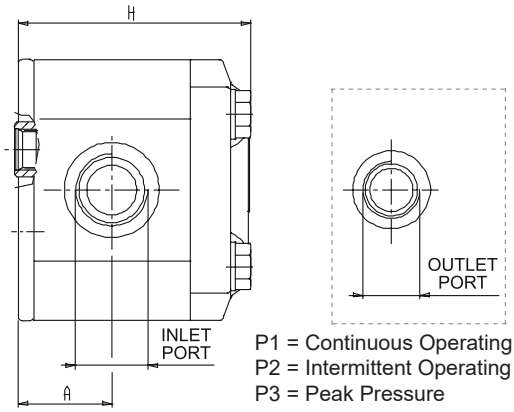
25PE Pumps P64R, G64R & R64R

Aluminium Gear Pumps

REAR PUMP - DIN5480 N18X1X9H Splined Shaft - Cast Iron End Cover

Displacement	Pressure
From 5.5 to 44.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
25PE5DR64R	5.50	1-1/16" UNO	7/8" UNO	3000	250	280	300	$ 600.00
25PE8DR64R	8.30			3000	250	280	300	$ 600.00
25PE11DR64R	11.50			3000	250	280	300	$ 600.00
25PE14DR64R	13.80			3000	250	280	300	$ 600.00
25PE16DR64R	16.00			3000	250	280	300	$ 600.00
25PE19DR64R	19.30			3000	250	280	300	$ 600.00
25PE22DR64R	22.00			3000	250	280	300	$ 700.00
25PE25DR64R	25.20	1-5/16" UNO	1-1/16" UNO	3000	250	280	300	$ 700.00
25PE28DR64R	28.00			3000	250	280	300	$ 800.00
25PE32DR64R	32.00			3000	230	250	260	$ 800.00
25PE38DR64R	38.00			2750	200	220	240	$ 800.00
25PE44DR64R	44.00			2500	170	190	210	$ 800.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

Displacement		Dimensions			
cm³/rev	cu.in./ rev	A		H	
		mm	in	mm	in
5.5	0.21	32.7	1.28	86.8	3.42
8.3	0.32	33.9	1.33	89.2	3.51
11.5	0.45	35.7	1.40	92.8	3.65
13.8	0.54	36.9	1.45	95.2	3.75
16	0.97	38.1	1.5	97.6	3.84
19	1.17	39.85	1.57	101.1	3.98
22	1.35	41.6	1.73	104.6	4.12
25	1.53	42.85	1.68	107.1	4.21
28	1.68	49.1	1.93	119.6	4.71
32	1.97	51.85	2.04	125.1	4.92
38	2.32	54.85	2.16	131.1	5.16
44	2.69	58.1	2.28	137.6	5.42

25PB Series Options and Accessories

Stock No.	Description	List Price
25PETANDEMKIT	Tandem Kit 25PB	$ 100.00
25PE2PETANDEMKIT	Tandem Kit 25PB-20PE	$ 200.00
25PEBSPCOVER	Cover Rear Ports BSPP	$ 100.00
25PESAE1612COVER	Cover Rear Ports SAE1612	$ 100.00
25PESAE2012COVER	Cover Rear Ports SAE2012	$ 100.00
25PESAE2016COVER	Cover Rear Ports SAE2016	$ 100.00
25PERELIEFCOVER	Cover c/w Relief Cavity suit Combine Relief Code R23277###	$ 100.00
25PE2BOLTAMOUNT	2 Bolt 'A' Mount c/w Shaft Seal	$ 100.00
25PE2BOLTBMOUNT	2 Bolt 'B' Mount c/w Shaft Seal	$ 120.00
25PEDINMOUNT	4 Bolt DIN Mount c/w Shaft Seal	$ 100.00
25PESEALKIT	Pump Complete Seal Kit suit 38P2,87S3,55S3	$ 60.00
25PESEALKIT54S2	Pump Complete Seal Kit suit 54S2	$ 60.00
25PESEALKITVITON	Pump Complete Seal Kit Viton suit 38P2,87S3,55S3	$ 120.00
25PESEALKIT54S2VITON	Pump Complete Seal Kit Viton suit 54S2	$ 120.00

3PE Pumps G38P2 & P38P2

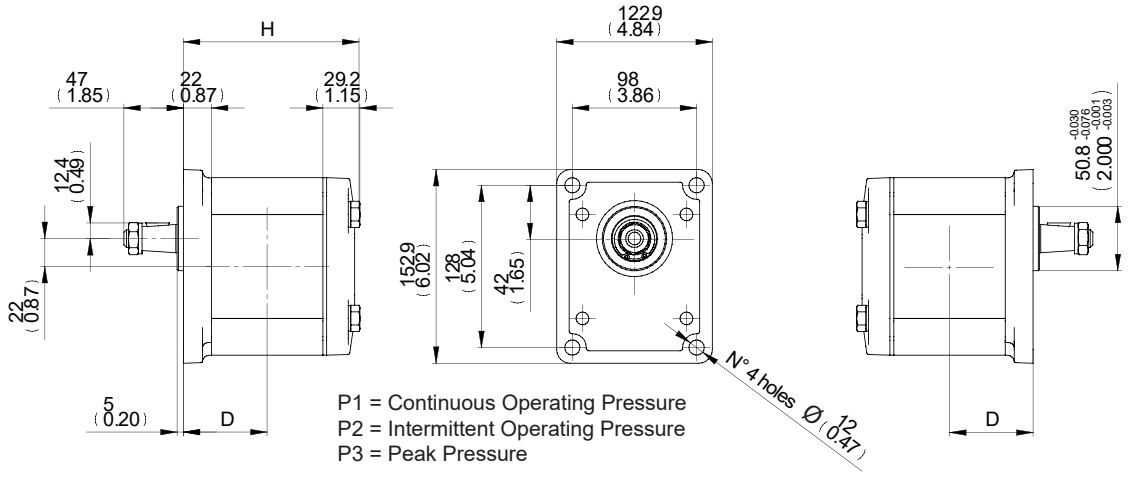
Aluminium Gear Pumps

DIN Group 3 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers

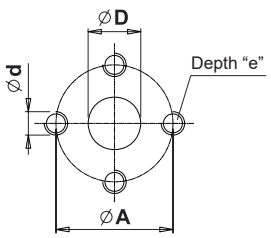
Displacement	Pressure
From 21 to 75.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DG38P2	20.60	1" BSPP	1" BSPP	3000	250	280	300	$ 891.00
3PE27DG38P2	27.00			3000	250	280	300	$ 891.00
3PE33DG38P2	33.50			3000	250	280	300	$ 891.00
3PE38DG38P2	38.70			2750	240	260	280	$ 891.00
3PE46DG38P2	46.90	1-1/4" BSPP	1" BSPP	2750	250	270	280	$ 891.00
3PE55DG38P2	54.10			2500	220	240	250	$ 891.00
3PE65DG38P2	63.10			2500	200	220	240	$ 989.00
3PE75DG38P2	73.40			2500	180	200	220	$ 989.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DP38P2	20.60	Refer to table below	Refer to table below	3000	250	280	300	$ 891.00
3PE27DP38P2	27.00			3000	250	280	300	$ 891.00
3PE33DP38P2	33.50			3000	250	280	300	$ 891.00
3PE38DP38P2	38.70			2750	240	260	280	$ 891.00
3PE46DP38P2	46.90			2750	250	270	280	$ 891.00
3PE55DP38P2	54.10			2500	220	240	250	$ 891.00
3PE65DP38P2	63.10			2500	200	220	240	$ 989.00
3PE75DP38P2	73.40			2500	180	200	220	$ 989.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



TYPE	INLET				OUTLET			
	Ø D	Ø A	d	e	Ø D	Ø A	d	e
From 21 to 55	27 *1,06*	51 *2,01*	M10	16 *0,63*	16 *0,63*	40 *1,57*	M8	16 *0,63*
From 65 to 75	33 *1,30*	62 *2,44*	M12	16 *0,63*	21 *0,83*	51 *2,01*	M10	16 *0,63*

3PE Pumps G87S3 & R87S3

Aluminium Gear Pumps

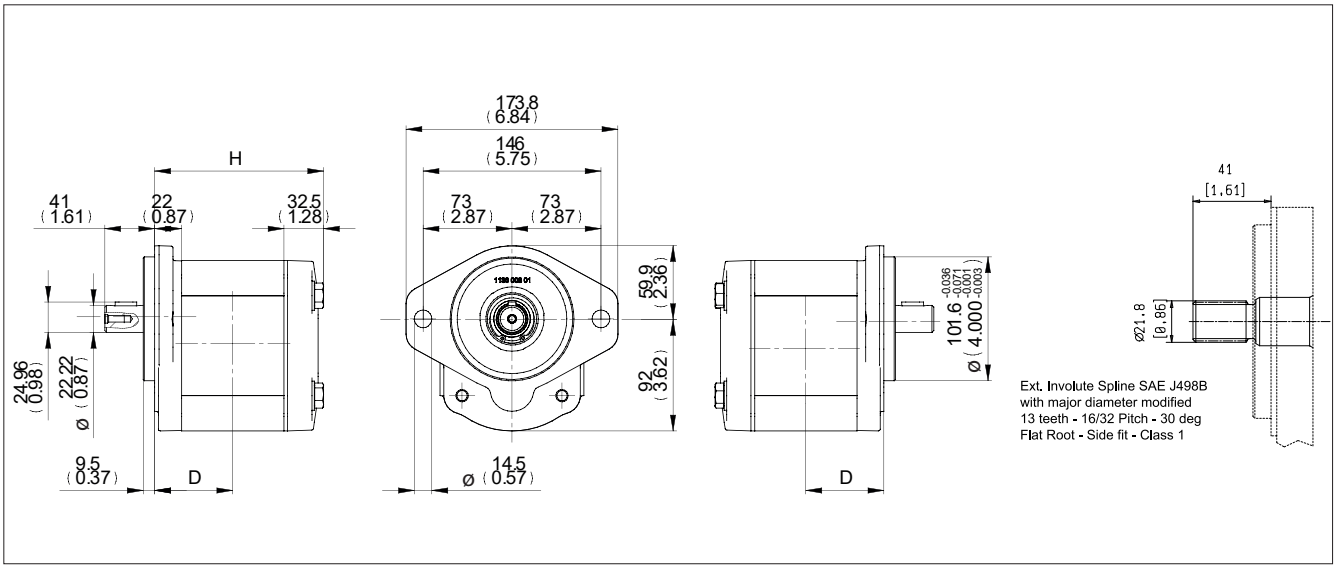
SAE 'B' - 2 Bolt Mount - 7/8" Straight Keyed & 13T Splined Shaft - Cast Iron End Covers

Displacement	Pressure
From 21 to 75.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DG87S3	20.60	1" BSPP	1" BSPP	3000	250	280	300	$ 891.00
3PE27DG87S3	27.00			3000	250	280	300	$ 891.00
3PE33DG87S3	33.50			3000	250	280	300	$ 891.00
3PE38DG87S3	38.70			2750	240	260	280	$ 891.00
3PE46DG87S3	46.90	1-1/4" BSPP	1" BSPP	2750	250	270	280	$ 891.00
3PE55DG87S3	54.10			2500	220	240	250	$ 891.00
3PE65DG87S3	63.10			2500	200	220	240	$ 989.00
3PE75DG87S3	73.40			2500	180	200	220	$ 989.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DR87S3	20.60	1-5/16" UNO	1-1/16" UNO	3000	250	280	300	$ 891.00
3PE27DR87S3	27.00			3000	250	280	300	$ 891.00
3PE33DR87S3	33.50			3000	250	280	300	$ 891.00
3PE38DR87S3	38.70			2750	240	260	280	$ 891.00
3PE46DR87S3	46.90	1-5/8" UNO	1-5/16" UNO	2750	250	270	280	$ 891.00
3PE55DR87S3	54.10			2500	220	240	250	$ 891.00
3PE65DR87S3	63.10			2500	200	220	240	$ 989.00
3PE75DR87S3	73.40			2500	180	200	220	$ 989.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



3PE Pumps G55S3 & R55S3

Aluminium Gear Pumps

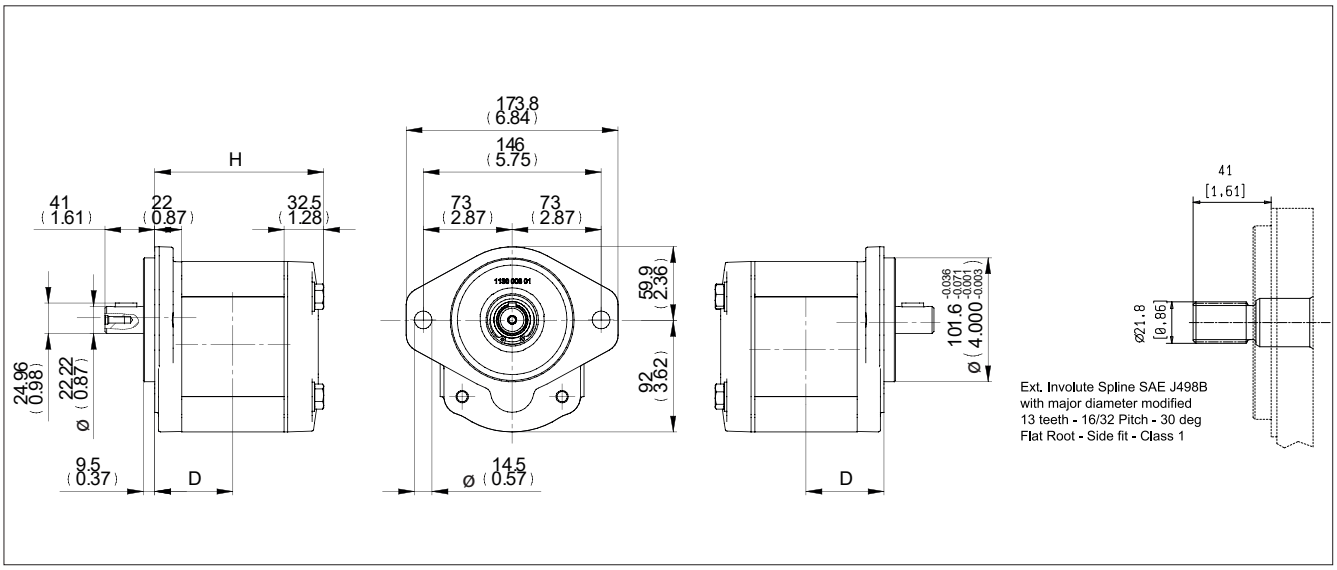
SAE 'B' - 2 Bolt Mount - 7/8" Straight Keyed & 13T Splined Shaft - Cast Iron End Covers

Displacement	Pressure
From 21 to 75.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DG55S3	20.60	1" BSPP	1" BSPP	3000	250	280	300	$ 891.00
3PE27DG55S3	27.00			3000	250	280	300	$ 891.00
3PE33DG55S3	33.50			3000	250	280	300	$ 891.00
3PE38DG55S3	38.70			2750	240	260	280	$ 891.00
3PE46DG55S3	46.90	1-1/4" BSPP	1" BSPP	2750	250	270	280	$ 891.00
3PE55DG55S3	54.10			2500	220	240	250	$ 891.00
3PE65DG55S3	63.10			2500	200	220	240	$ 989.00
3PE75DG55S3	73.40			2500	180	200	220	$ 989.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DR55S3	20.60	1-5/16" UNO	1-1/16" UNO	3000	250	280	300	$ 891.00
3PE27DR55S3	27.00			3000	250	280	300	$ 891.00
3PE33DR55S3	33.50			3000	250	280	300	$ 891.00
3PE38DR55S3	38.70			2750	240	260	280	$ 891.00
3PE46DR55S3	46.90	1-5/8" UNO	1-5/16" UNO	2750	250	270	280	$ 891.00
3PE55DR55S3	54.10			2500	220	240	250	$ 891.00
3PE65DR55S3	63.10			2500	200	220	240	$ 989.00
3PE75DR55S3	73.40			2500	180	200	220	$ 989.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



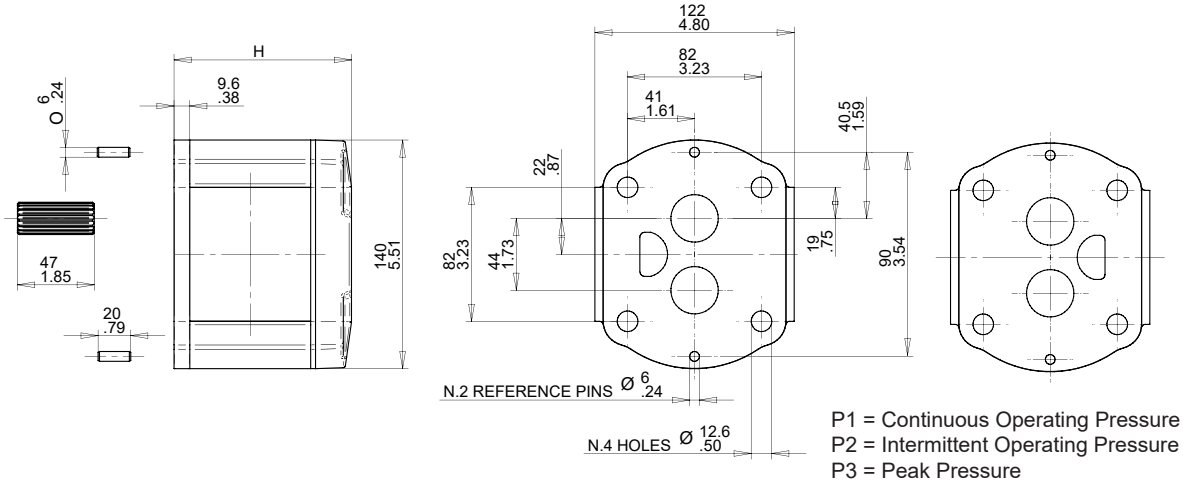
3PE Pumps P65R,G65R & R65R

Aluminium Gear Pumps

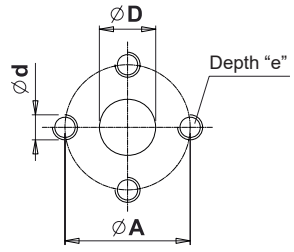
REAR PUMP - Female Splined Shaft - Cast Iron End Cover

Displacement	Pressure
From 21 to 75.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DP65R	20.60	Refer to Table Below	Refer to Table Below	3000	250	280	300	$ 891.00
3PE27DP65R	27.00			3000	250	280	300	$ 891.00
3PE33DP65R	33.50			3000	250	280	300	$ 891.00
3PE38DP65R	38.70			2750	240	260	280	$ 891.00
3PE46DP65R	46.90			2750	250	270	280	$ 891.00
3PE55DP65R	54.10			2500	220	240	250	$ 891.00
3PE65DP65R	63.10			2500	200	220	240	$ 989.00
3PE75DP65R	73.40			2500	180	200	220	$ 989.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



TYPE	INLET				OUTLET			
	Ø D	Ø A	d	e	Ø D	Ø A	d	e
From 21 to 55	27 *1,06*	51 *2,01*	M10	16 *0,63*	16 *0,63*	40 *1,57*	M8	16 *0,63*
From 65 to 75	33 *1,30*	62 *2,44*	M12	16 *0,63*	21 *0,83*	51 *2,01*	M10	16 *0,63*

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DG65R	20.60	1" BSPP	1" BSPP	3000	250	280	300	$ 891.00
3PE27DG65R	27.00			3000	250	280	300	$ 891.00
3PE33DG65R	33.50			3000	250	280	300	$ 891.00
3PE38DG65R	38.70			2750	240	260	280	$ 891.00
3PE46DG65R	46.90	1-1/4" BSPP	1" BSPP	2750	250	270	280	$ 891.00
3PE55DG65R	54.10			2500	220	240	250	$ 891.00
3PE65DG65R	63.10			2500	200	220	240	$ 989.00
3PE75DG65R	73.40			2500	180	200	220	$ 989.00

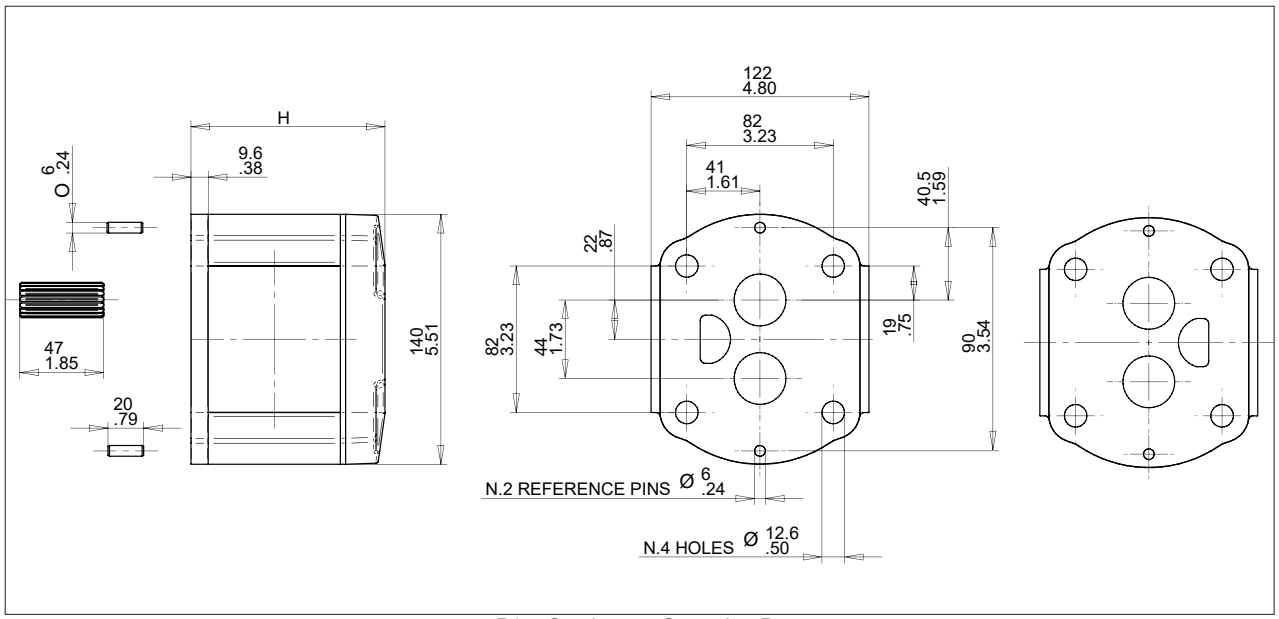
3PE Pumps P65R,G65R & R65R

Aluminium Gear Pumps

REAR PUMP - Female Splined Shaft - Cast Iron End Cover

Displacement	Pressure
From 21 to 75.00 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
3PE21DR65R	20.60	1-5/16" UNO	1-1/16" UNO	3000	250	280	300	$ 891.00
3PE27DR65R	27.00			3000	250	280	300	$ 891.00
3PE33DR65R	33.50			3000	250	280	300	$ 891.00
3PE38DR65R	38.70			2750	240	260	280	$ 891.00
3PE46DR65R	46.90	1-5/8" UNO	1-5/16" UNO	2750	250	270	280	$ 891.00
3PE55DR65R	54.10			2500	220	240	250	$ 891.00
3PE65DR65R	63.10			2500	200	220	240	$ 989.00
3PE75DR65R	73.40			2500	180	200	220	$ 989.00



P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

3PE Series Options and Accessories

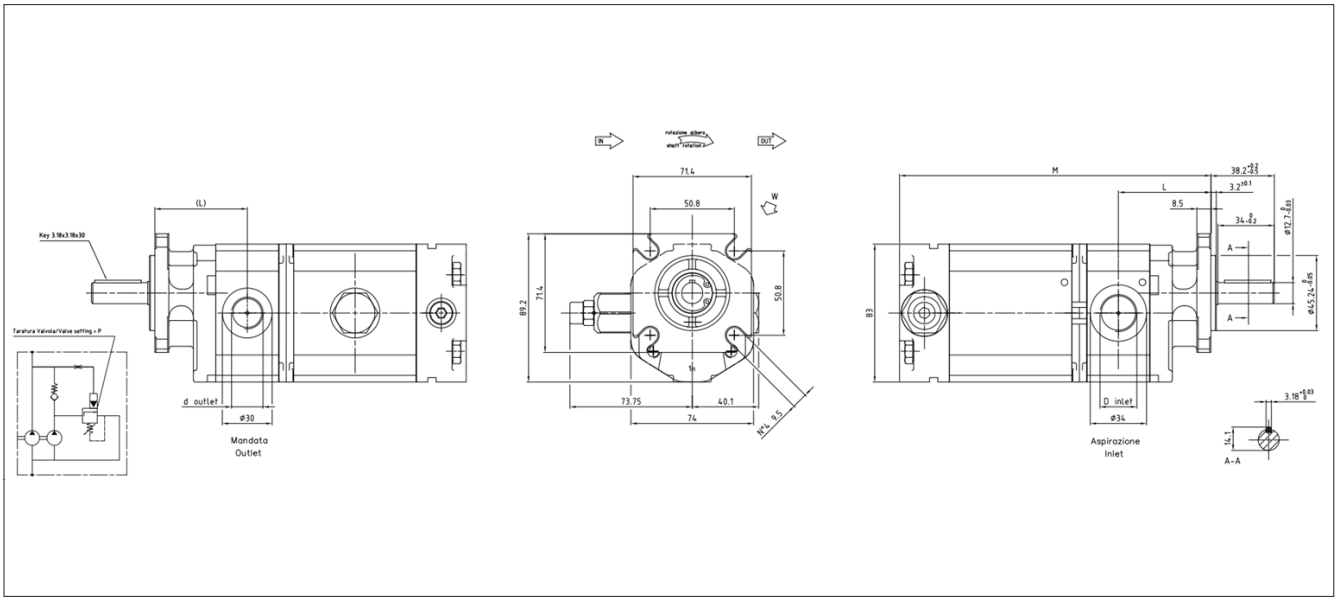
Stock No.	Description	List Price
3PETANDEMKIT	Tandem Kit 3PE	$ 100.00
R13090010	Tandem Kit 3PE-20PE	$ 200.00
R13090030	Tandem Kit 3PE-20PE Common RH Rotation	$ 200.00
R13090040	Tandem Kit 3PE-20PE Common LH Rotation	$ 200.00
3PESEALKIT	Pump Complete Seal Kit suit 38P2	$ 130.00
3PESEALKITVITON	Pump Complete Seal Kit Viton suit 38P2	$ 200.00
3PESEALKITS3	Pump Complete Seal Kit suit S3	$ 130.00
3PESEALKITVITONS3	Complete Seal Kit Viton suit S3	$ 200.00

ALP1HL Hi-Low Pumps

Aluminium Gear Pumps
Group 1 - SAE 4F17 4 Bolt Mount - 1/2” Keyed Shaft
CW Rotation Facing The Pump Shaft

Displacement	Hi-Lo Pressure Setting
From 1.4 to 13.80 cc/rev	50 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max Pressure Bar		HiLo Pressure	List Price
	cc/rev	Inlet	Outlet		P1	P2	PHL	
ALP1AQHL0204	1.4 + 2.8	3/4" UNO	9/16" UNO	4000	250	270	50	$ 900.00
ALP1AQHL0220	1.4 + 13.8	7/8" UNO	3/4" UNO	2000	250	270	50	$ 900.00
ALP1AQHL0411	2.8 + 7.6			3000	250	270	50	$ 900.00
ALP1AQHL0520	3.5 + 13.8			2000	250	270	50	$ 900.00
ALP1AQHL0616	4.1 + 11.0			2000	250	270	50	$ 900.00



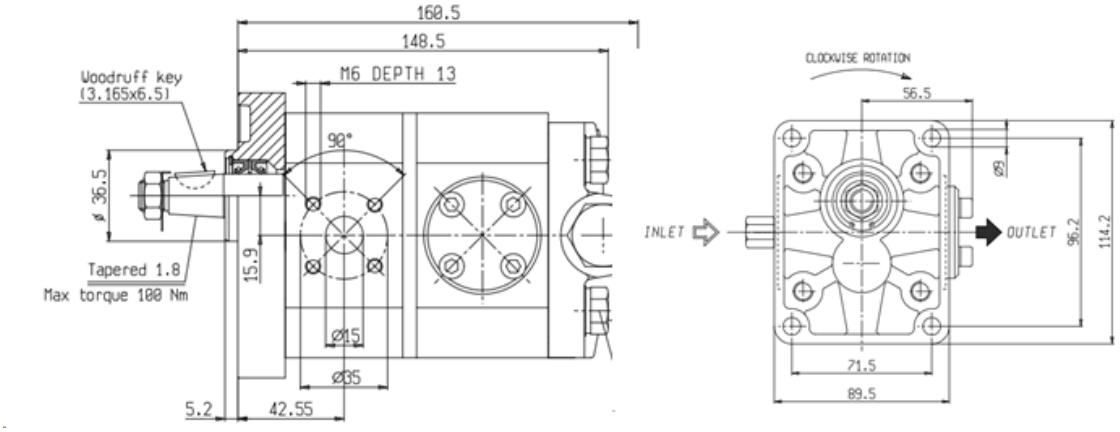
Displacement	L [mm]	M [mm]	D	d	P [bar]
1.4 + 2.8	55.8	155.8	3/4-16 UNF-2B	9/16-18 UNF-2B	50
1.4 + 13.8	55.8	187.8	7/8-14 UNF-2B	3/4-16 UNF-2B	50
2.8 + 7.6	57.8	173.8	7/8-14 UNF-2B	3/4-16 UNF-2B	50
3.5 + 13.8	58.8	193.8	7/8-14 UNF-2B	3/4-16 UNF-2B	50
4.1 + 11.0	59.8	187.8	7/8-14 UNF-2B	3/4-16 UNF-2B	50

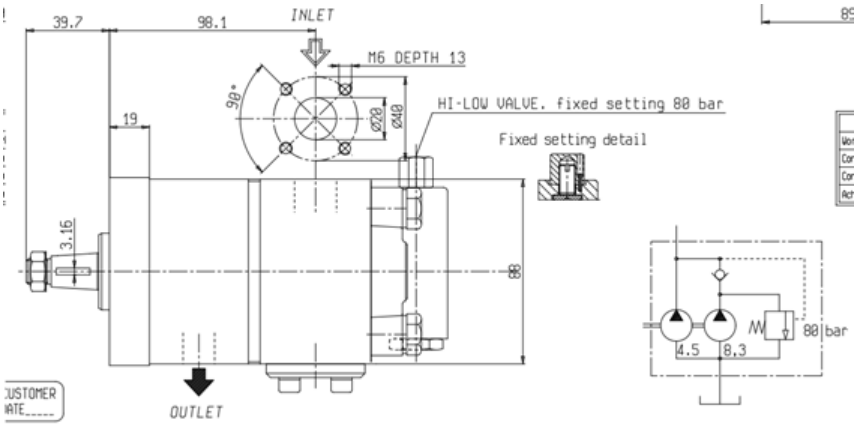
2PEHL Hi-Low Pumps

Aluminium Gear Pumps
DIN Group 2 - 4 Bolt Mount - 1.8 Tapered Shaft
CW Rotation Facing The Pump Shaft

Displacement	Hi-Lo Pressure Setting
From 4.5 to 22.5 cc/rev	60 - 120 Bar Factory setting 80 Bar / Optional 30 - 60 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max Pressure Bar		HiLo Pressure	List Price
	cc/rev	Inlet	Outlet		P1	P2	PHL	
2PEHLD0411	4.5 + 11.3	Refer To Drawing Below	Refer To Drawing Below	3000	250	280	80	$ 1150.00
2PEHLD0414	4.5 + 14.0			3000	250	280	80	$ 1150.00
2PEHLD0611	6.5 + 11.3			3000	250	280	80	$ 1150.00
2PEHLD0816	8.2 + 16.0			2750	250	280	80	$ 1150.00
2PEHLD0822	8.2 + 22.5			2750	250	280	80	$ 1150.00

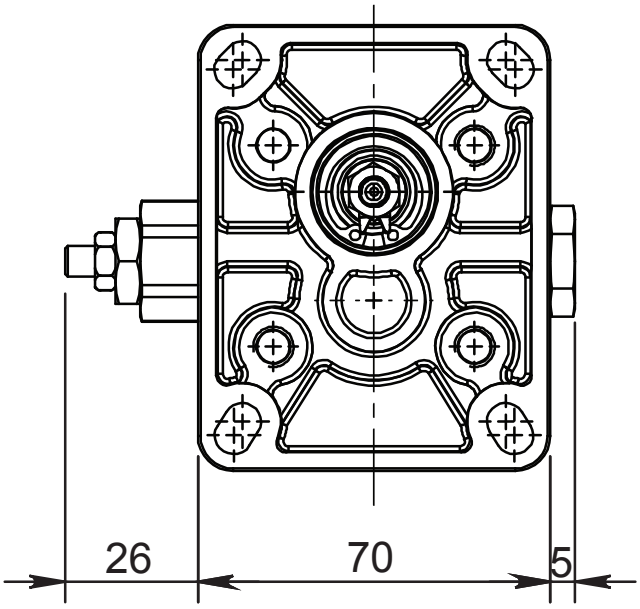


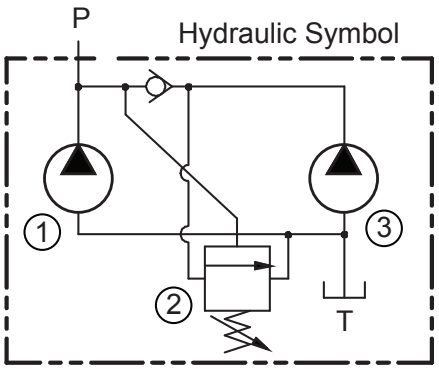


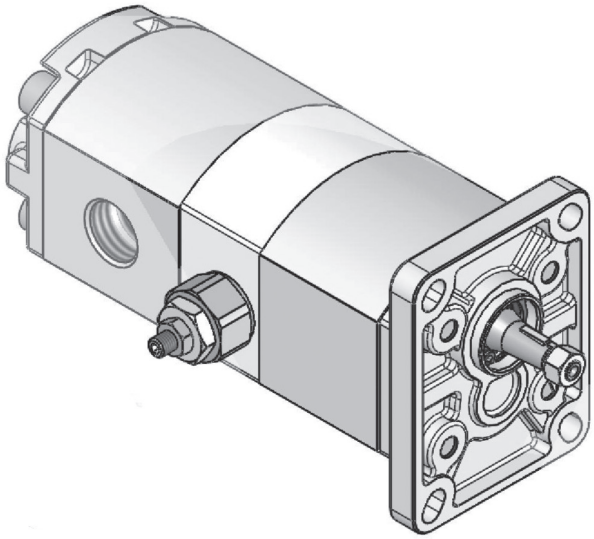
Hi-Low Pumps

Group 1 - Hi-Low with Unloading (20-50 Bar) (2) - 4 Bolt Taper

Stock No.	Model Code	1 Displacement 3		Max. Pressure		Port Size		List Price
		cc/rev	cc/rev	bar	psi	inlet	outlet	
1SPA1650DVD**	1SPAD10GG	1.60	5.00	210	3000	1/2" G	3/8" G	$ 690.00
1SPA2063DVD**	1SPAD10GG	2.00	6.30	210	3000	1/2" G	3/8" G	$ 690.00
1SPA2578DVD**	1SPAD10GG	2.50	7.80	210	3000	1/2" G	3/8" G	$ 690.00





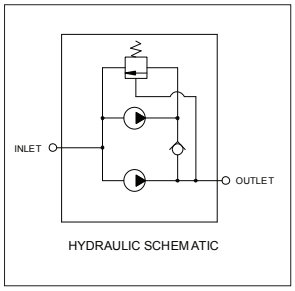


Hi-Low Pumps

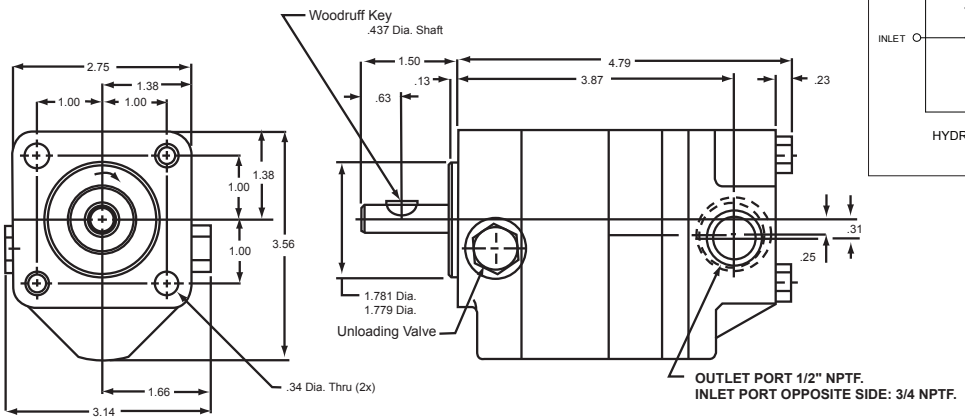
MTE Hi-Lo Pumps - Cast Iron

Stock No.	HP Rating	Displacement cc/rev	Max Pressure PSI	Max Speed RPM	Unloading Valve Setting	Inlet Port Size	Outlet Port Size	A Dim. inch	B Dim. inch	C Dim. inch	List Price
L62	3 HP	5.3 + 1.8	3000	3800	500 PSI	3/4" NPT	1/2" NPT	0.437	4.29	3.37	$ 507.00
4081	5 HP	8.2 + 3.3	3000	3800	500 PSI	3/4" NPT	1/2" NPT	0.437	4.79	3.87	$ 602.00
5184	6.5 HP	10.6 + 3.1	3000	3800	500 PSI	1" TUBE	1/2" NPT	0.500	6.24	5.30	$ 602.00
5185	9 HP	13.1 + 3.1	3000	3800	500 PSI	1" TUBE	1/2" NPT	0.500	6.57	5.65	$ 602.00

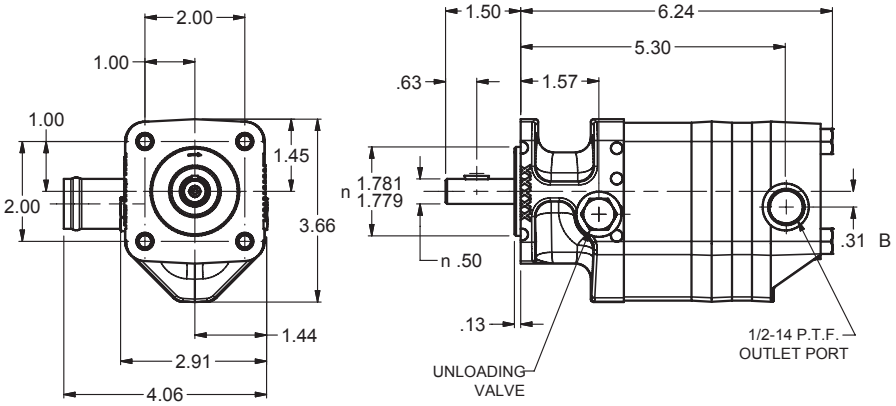
Rotation: All Models rotate clockwise facing the pump shaft.
Mounting: SAE 4F17 four bolt all models.



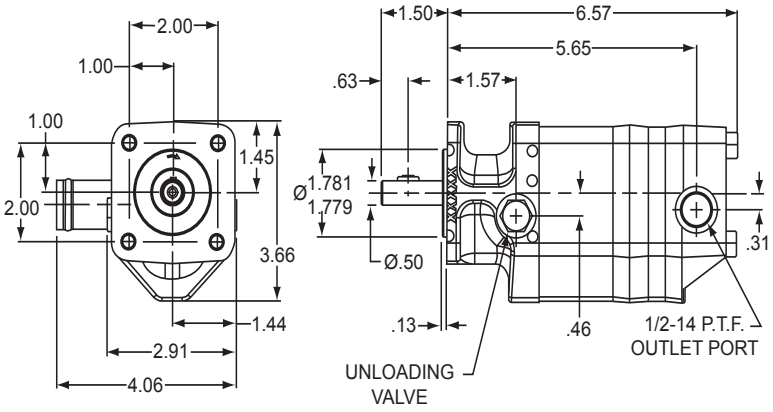
Dimensions for L62 - 3 HP and 4081 - 5 HP



Dimensions for 5184 - 6.5 HP



Dimensions for 5185 - 9 HP

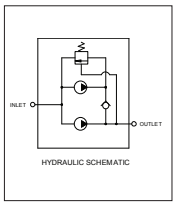


Hi-Low Pumps

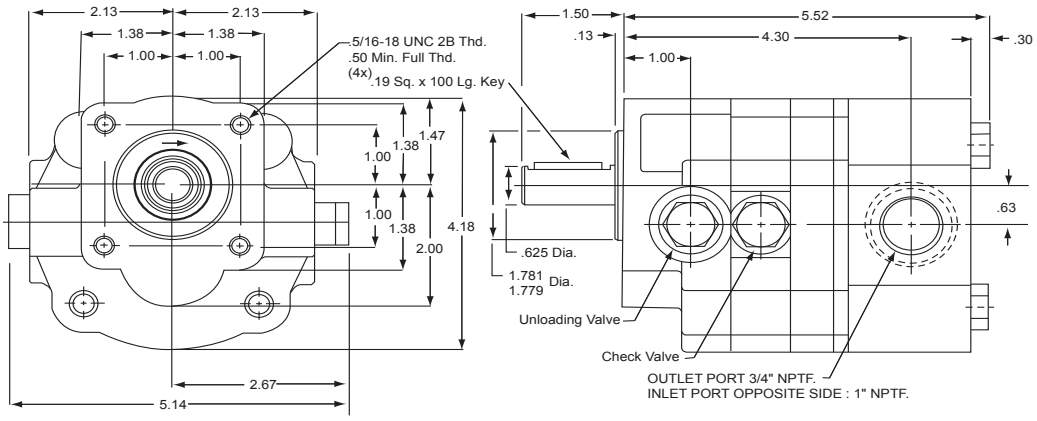
MTE Hi-Lo Pumps - Cast Iron

Stock No.	HP Rating	Displacement cc/rev	Max Pressure PSI	Max Speed RPM	Unloading Valve Setting	Inlet Port Size	Outlet Port Size	A Dim. inch	B Dim. inch	C Dim. inch	List Price
4171	10 HP	14 + 3.6	3500	3600	600 PSI	1" NPT	3/4" NPT	0.625	5.52	4.30	$ 880.00
5278	13 HP	16 + 6.7	3000	3800	500 PSI	1" TUBE	1/2" NPT	0.625	6.28	5.07	$ 1000.00
L262	13 HP	16 + 7	3000	3800	500 PSI	1" TUBE	1/2" NPT	0.625	5.82	4.59	$ 1000.00

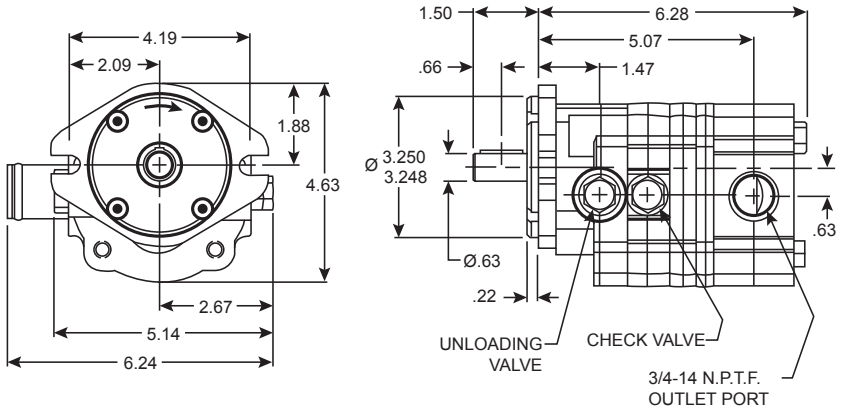
Rotation: All Models rotate clockwise facing the pump shaft.
Mounting: SAE 4F17 four bolt (4171, L262) SAE A 2B (5278)



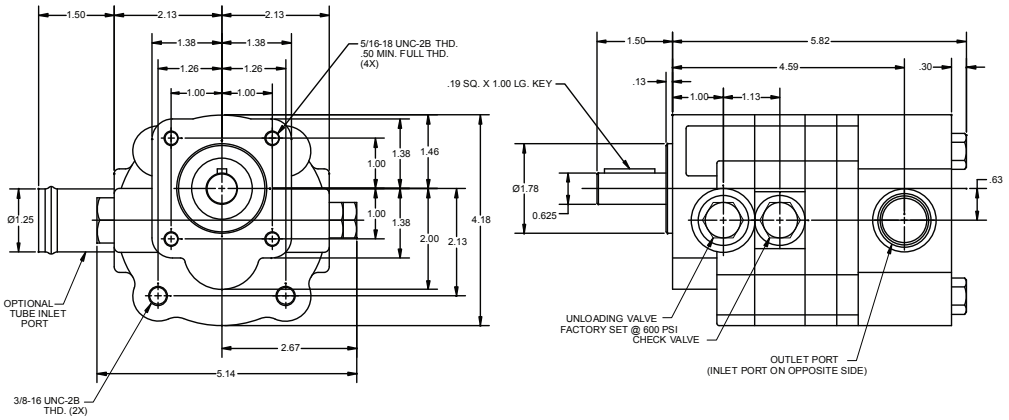
Dimensions for 4171 - 10 HP



Dimensions for 5278 - 13 HP



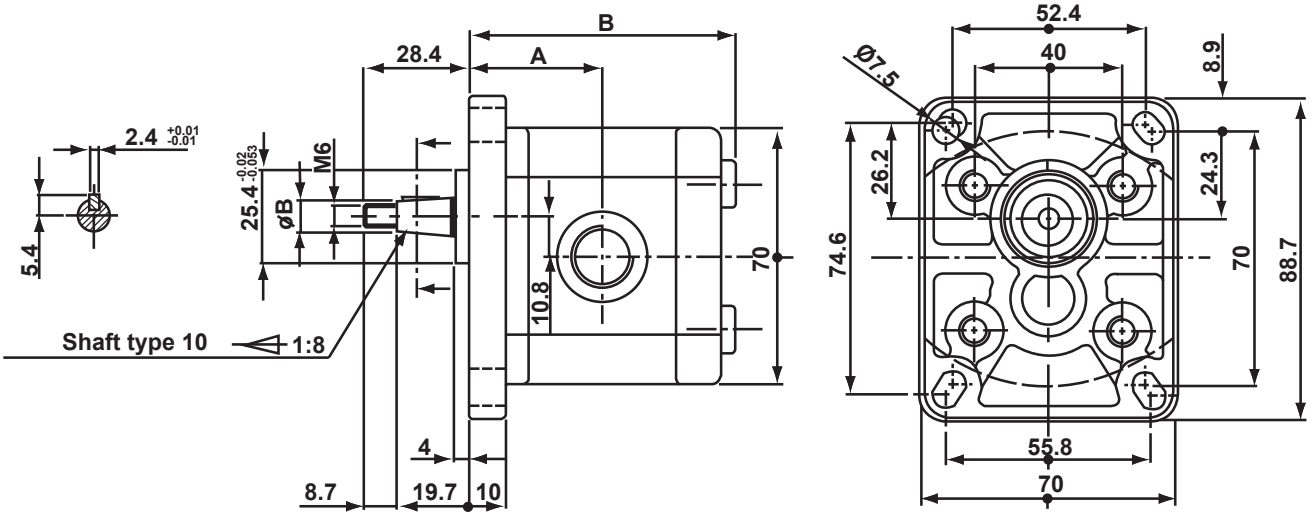
Dimensions for L262 - 13 HP



1SMA Reversible Motors

DIN Group 1 - 4 Bolt Mount - 1:8 Taper Shaft

Stock No.	Displacement	Port Size		Dimension mm		Max. Speed RPM	Max. Pressure Bar		Weight Kg	List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2		
1SMA25RK10GG	2.5	3/8" BSPP	3/8" BSPP	38	80	4000	180	200	2	$ 290.00
1SMA32RK10GG	3.2			39	80	4000	180	200	2	$ 290.00
1SMA37RK10GG	3.7			40	84	4000	170	190	2	$ 290.00
1SMA42RK10GG	4.2			41	85	3500	170	190	2	$ 290.00



Reversible motors have a 1/4" BSPP case drain port. This allows 2 or more motors to be connected in series. It is not possible to plug case drain even if you use the motor in one direction. Maximum back pressure on case drain is 30 bar.

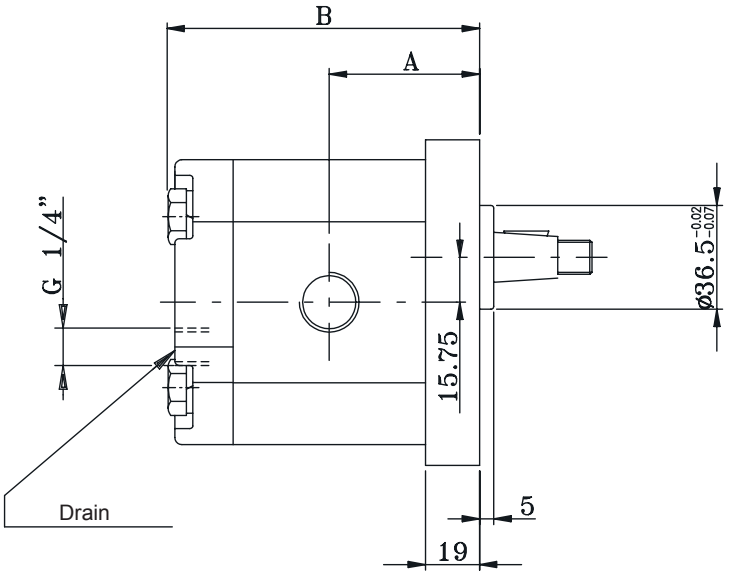
Avoid axial and radial loads on the shafts.

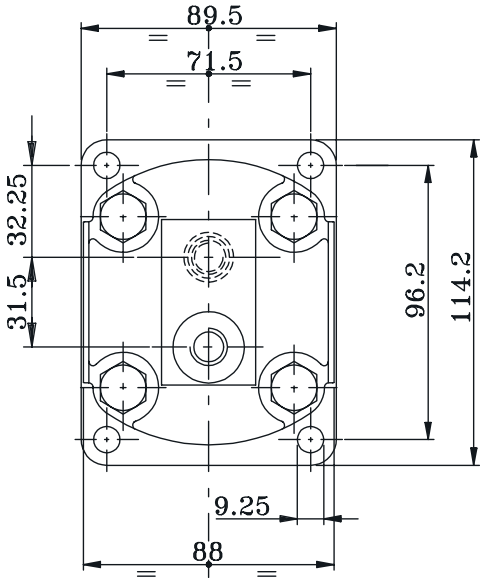
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure

2SMG Reversible Motors

DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar		Weight Kg	List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2		
2SMG4RK10U	4.0	7/8" UNO	7/8" UNO	44.4	93.0	4000	230	230	2.30	$ 495.00
2SMG6RK10U	6.0			46.0	96.3	4000	230	230	2.45	$ 495.00
2SMG8RK10U	8.5			48.1	100.5	3500	230	230	2.60	$ 495.00
2SMG11RK10U	11.0	1-1/16" UNO	1-1/16" UNO	50.2	104.6	3500	230	230	2.70	$ 506.00
2SMG14RK10U	14.0			52.7	109.6	3500	230	230	2.80	$ 506.00
2SMG16RK10U	16.5			54.8	113.8	3500	195	200	2.95	$ 506.00
2SMG19RK10U	19.5			57.3	118.8	3300	180	185	3.10	$ 517.00
2SMG22RK10U	22.5			59.8	123.8	2800	165	170	3.25	$ 517.00
2SMG26RK10U	26.0			62.7	129.6	2500	150	155	3.40	$ 528.00





Reversible motors have a 1/4" BSPP case drain port. This allows 2 or more motors to be connected in series. It is not possible to plug case drain even if you use the motor in one direction. Maximum back pressure on case drain is 30 bar.

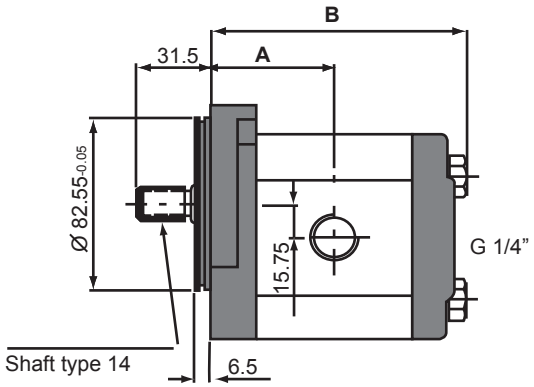
Avoid axial and radial loads on the shafts.

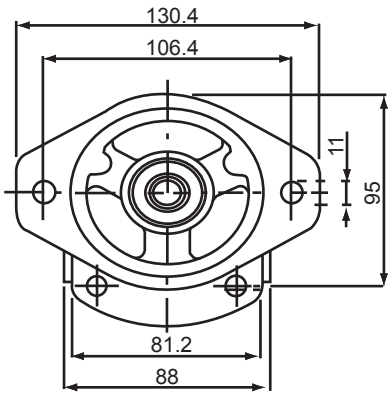
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure

2SMG Reversible Motors

SAE 'A' - 2 Bolt Mount - 5/8" Straight Keyed Shaft - Cast Iron End Covers

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar		Weight Kg	List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2		
2SMG4RSAEK13U	4.0	7/8" UNO	7/8" UNO	44.4	93.0	4000	230	230	2.30	$ 495.00
2SMG6RSAEK13U	6.0			46.0	96.3	4000	230	230	2.45	$ 495.00
2SMG8RSAEK13U	8.5			48.1	100.5	3500	230	230	2.60	$ 495.00
2SMG11RSAEK13U	11.0	1-1/16" UNO	1-1/16" UNO	50.2	104.6	3500	230	230	2.70	$ 506.00
2SMG14RSAEK13U	14.0			52.7	109.6	3500	230	230	2.80	$ 506.00
2SMG16RSAEK13U	16.5			54.8	113.8	3500	195	200	2.95	$ 506.00
2SMG19RSAEK13U	19.5			57.3	118.8	3300	180	185	3.10	$ 517.00
2SMG22RSAEK13U	22.5			59.8	123.8	2800	165	170	3.25	$ 517.00
2SMG26RSAEK13U	26.0			62.7	129.6	2500	150	155	3.40	$ 528.00





Reversible motors have a 1/4" BSPP case drain port. This allows 2 or more motors to be connected in series. It is not possible to plug case drain even if you use the motor in one direction. Maximum back pressure on case drain is 30 bar.

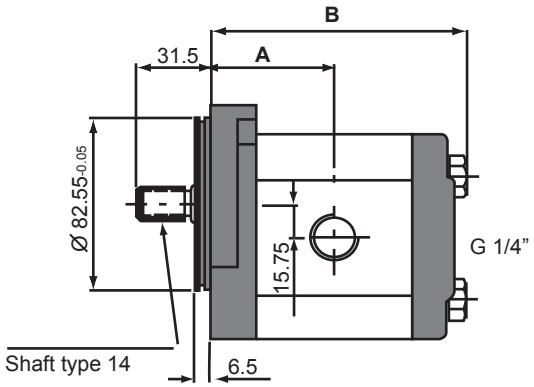
Avoid axial and radial loads on the shafts.

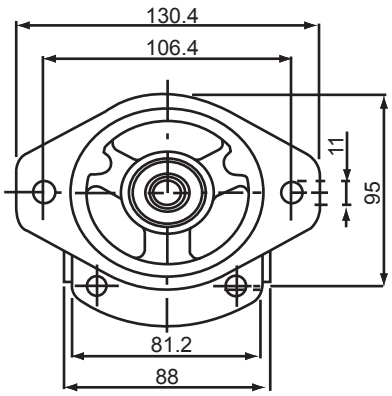
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure

2SMG Reversible Motors

SAE 'A' - 2 Bolt Mount - 5/8" 9 Tooth Splined Shaft - Cast Iron End Covers

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar		Weight Kg	List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2		
2SMG4RSAEK14U	4.0	7/8" UNO	7/8" UNO	44.4	93.0	4000	230	230	2.30	$ 495.00
2SMG6RSAEK14U	6.0			46.0	96.3	4000	230	230	2.45	$ 495.00
2SMG8RSAEK14U	8.5			48.1	100.5	3500	230	230	2.60	$ 495.00
2SMG11RSAEK14U	11.0	1-1/16" UNO	1-1/16" UNO	50.2	104.6	3500	230	230	2.70	$ 506.00
2SMG14RSAEK14U	14.0			52.7	109.6	3500	230	230	2.80	$ 506.00
2SMG16RSAEK14U	16.5			54.8	113.8	3500	195	200	2.95	$ 506.00
2SMG19RSAEK14U	19.5			57.3	118.8	3300	180	185	3.10	$ 517.00
2SMG22RSAEK14U	22.5			59.8	123.8	2800	165	170	3.25	$ 517.00
2SMG26RSAEK14U	26.0			62.7	129.6	2500	150	155	3.40	$ 528.00





Reversible motors have a 1/4" BSPP case drain port. This allows 2 or more motors to be connected in series. It is not possible to plug case drain even if you use the motor in one direction. Maximum back pressure on case drain is 30 bar.

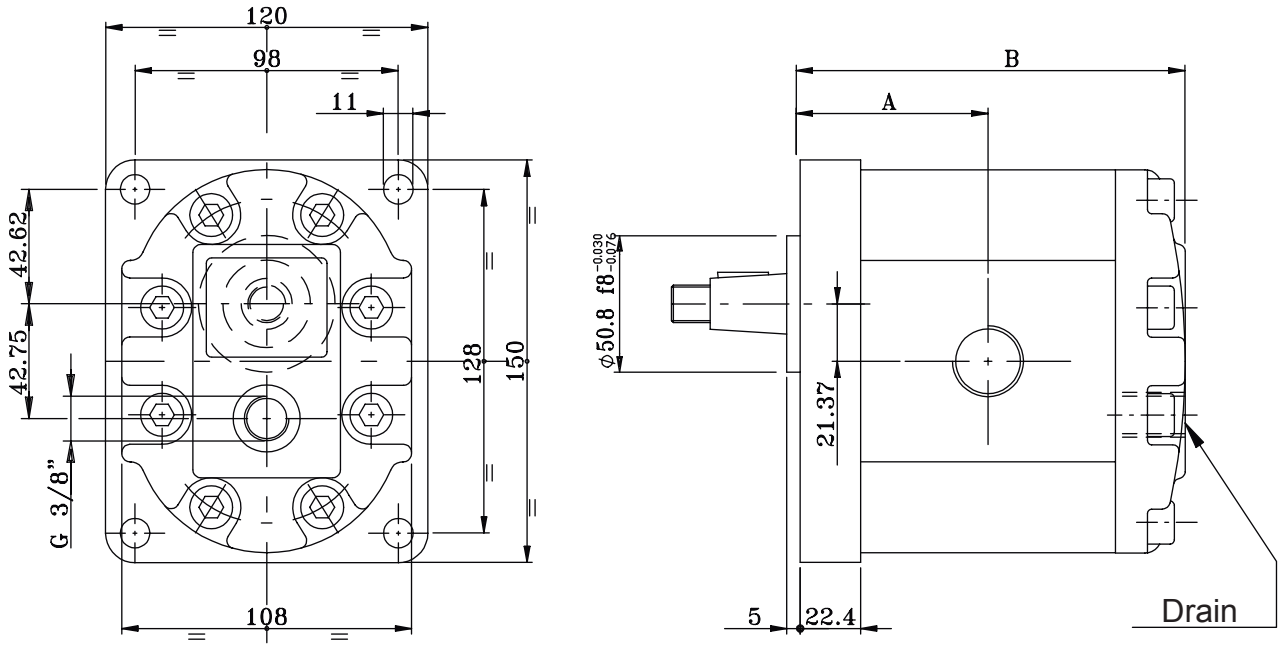
Avoid axial and radial loads on the shafts.

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure

3SMG Reversible Motors

DIN Group 3 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar		Weight Kg	List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2		
3SMG29RK10G	29.3	1" BSPP	1" BSPP	66.9	137.3	3300	190	230	5.67	$ 935.00
3SMG33RK10G	32.9			68.4	140.3	3300	190	220	5.81	$ 945.00
3SMG36RK10G	36.4			69.9	143.3	3300	180	205	5.94	$ 957.00
3SMG44RK10G	43.5			72.9	149.3	3000	170	205	6.22	$ 979.00
3SMG52RK10G	51.7			76.4	156.3	3000	170	195	6.53	$ 1011.00



Reversible motors have a 3/8" BSPP case drain port. This allows 2 or more motors to be connected in series. It is not possible to plug case drain even if you use the motor in one direction. Maximum back pressure on case drain is 30 bar.

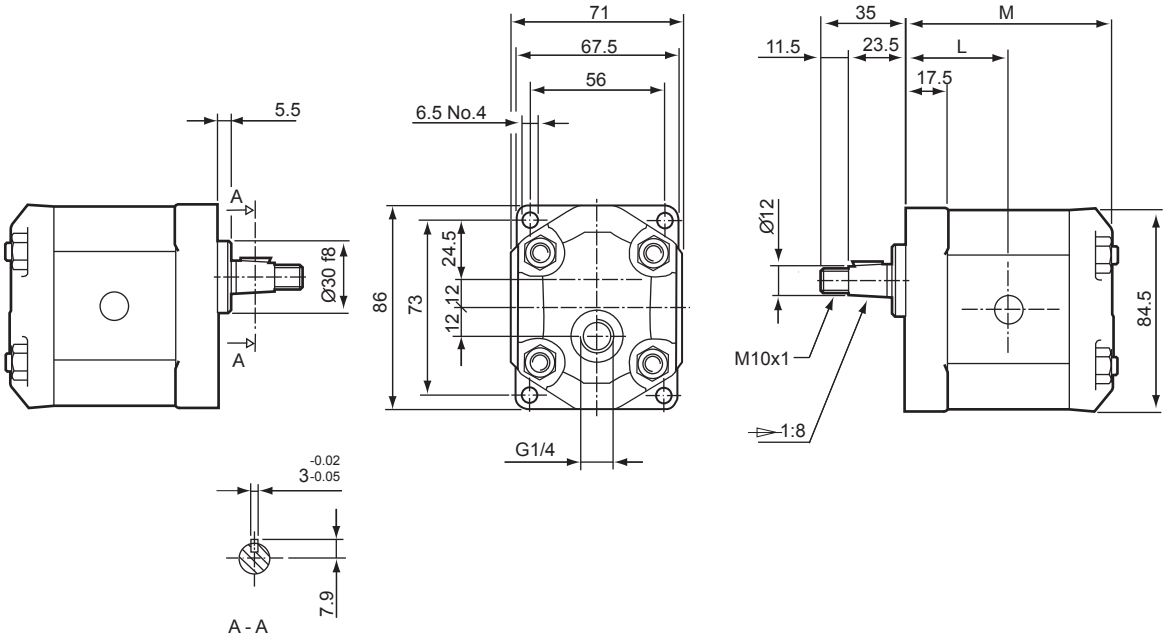
Avoid axial and radial loads on the shafts.

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure

ALM1 Reversible Motors

DIN Group 1 (Heavy) - 4 Bolt Mount - 1:8 Taper Shaft (Heavy)

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar		Weight Kg	List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2		
ALM1R4FGE1	2.8	1/2" BSPP	1/2" BSPP	42	84.5	5000	180	200	2	$ 435.00
ALM1R5FGE1	3.5			43	86.5	5000	180	200	2	$ 435.00
ALM1R6FGE1	4.1			44	88.5	4000	170	190	2	$ 435.00
ALM1R7FGE1	5.5			45.5	91.5	4000	170	190	2	$ 435.00
ALM1R9FGE1	6.2			47	94.5	3800	160	180	2	$ 435.00
ALM1R11FGE1	7.6			49	98.8	3200	130	150	2	$ 435.00



Reversible motors have a 1/4" BSPP case drain port. This allows 2 or more motors to be connected in series. It is not possible to plug case drain even if you use the motor in one direction. Maximum back pressure on case drain is 30 bar.

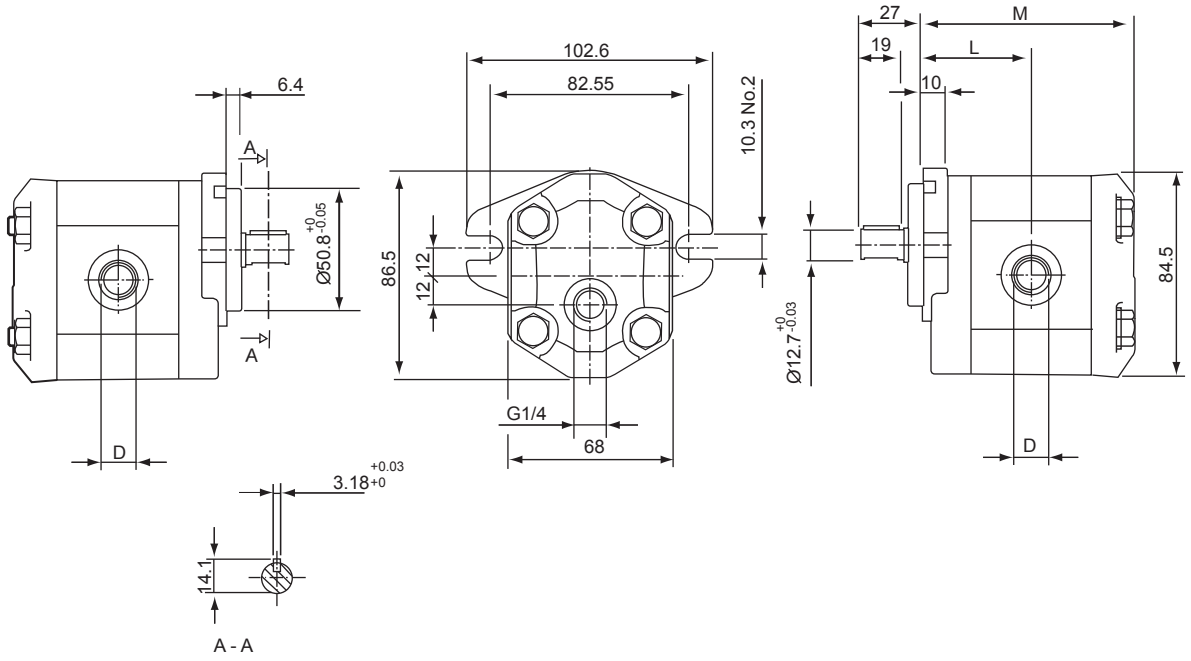
Avoid axial and radial loads on the shafts.

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure

ALM1A Reversible Motors

SAE 'AA' - 2 Bolt Mount - 1/2" Dia. Straight Keyed Shaft

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar		Weight Kg	List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2		
ALM1AR4C1FAE1	2.8	3/4" UNO	3/4" UNO	44	86.5	5000	180	200	2	$ 440.00
ALM1AR5C1FAE1	3.5			45	88.5	5000	180	200	2	$ 440.00
ALM1AR6C1FAE1	4.1			46	90.5	4000	170	190	2	$ 440.00
ALM1AR7C1FAE1	5.5			47.5	93.5	3500	170	190	2	$ 440.00
ALM1AR9C1FAE1	6.2			49	96.5	3000	160	180	2	$ 440.00
ALM1AR11C1FAE1	7.6	7/8" UNO	7/8" UNO	51	100.5	3500	130	150	2	$ 440.00



Reversible motors have a 1/4" BSPP case drain port. This allows 2 or more motors to be connected in series. It is not possible to plug case drain even if you use the motor in one direction. Maximum back pressure on case drain is 30 bar.

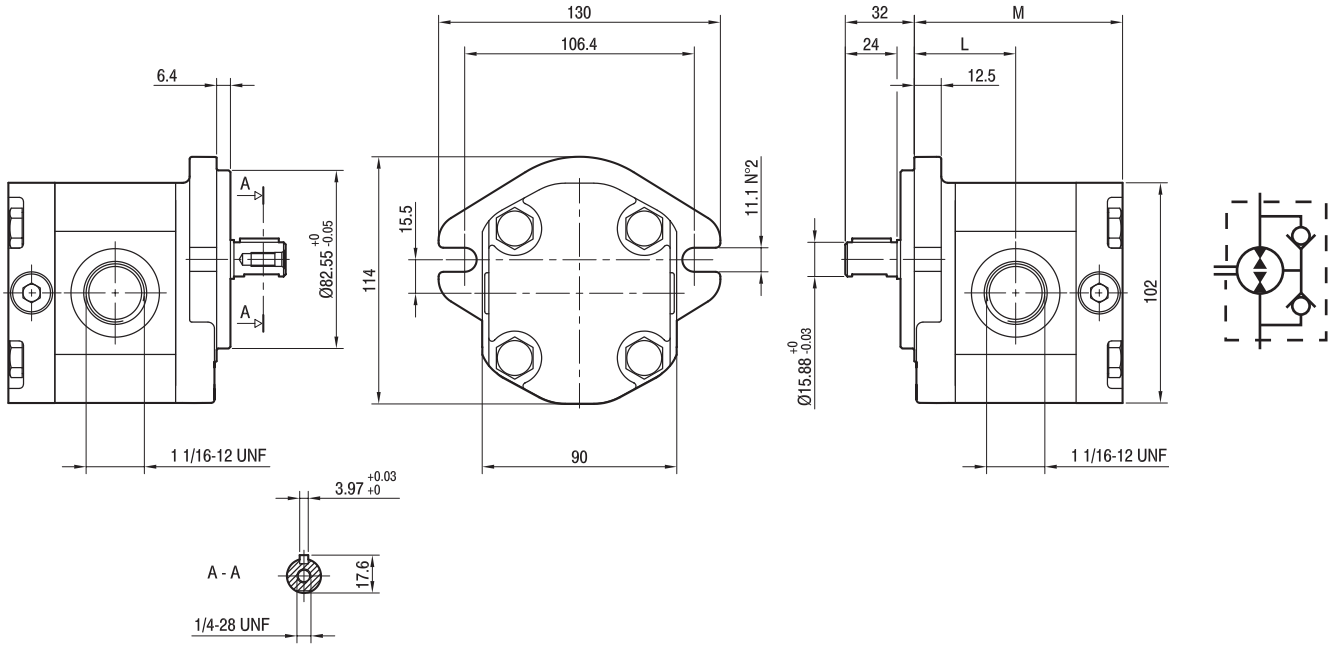
Avoid axial and radial loads on the shafts.

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure

ALM2AEO Reversible Pumps/Motors

SAE 'A' - 2 Bolt Mount - 5/8" Dia. Straight Keyed Shaft

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar		Weight Kg	List Price
	cc/rev	Inlet	Outlet	L	M		P1	P2		
ALM2AR6EO	4.5	1-1/16" UNO	1-1/16" UNO	45.5	93.5	4000	250	270	3	$ 578.00
ALM2AR9EO	6.4			47	96.5	4000	250	270	3	$ 578.00
ALM2AR10EO	7.0			47.5	97.5	4000	250	270	3	$ 578.00
ALM2AR12EO	8.3			48.5	99.5	4000	250	270	3	$ 578.00
ALM2AR13EO	9.6			49.5	101.5	4000	250	270	3	$ 578.00
ALM2AR16EO	11.5			51	104.5	4000	230	250	3	$ 578.00
ALM2AR20EO	14.1			53	108.5	3200	230	250	3.2	$ 578.00
ALM2AR22EO	16.0			54.5	111.5	2800	210	225	3.3	$ 578.00
ALM2AR25EO	17.9			56	114.5	2500	210	225	3.4	$ 578.00
ALM2AR30EO	21.1			58.5	119.5	2200	180	195	3.5	$ 631.00
ALM2AR34EO	23.7			60.5	123.5	2000	180	195	3.6	$ 631.00
ALM2AR40EO	28.2			64	130.5	1800	170	185	3.7	$ 631.00



Reversible pump/motor complete with check valves in rear cover. The pump/motor is without case drain. Maximum back pressure on outlet = 10 bar. Not suitable for series connection.

Avoid axial and radial loads on the shafts.

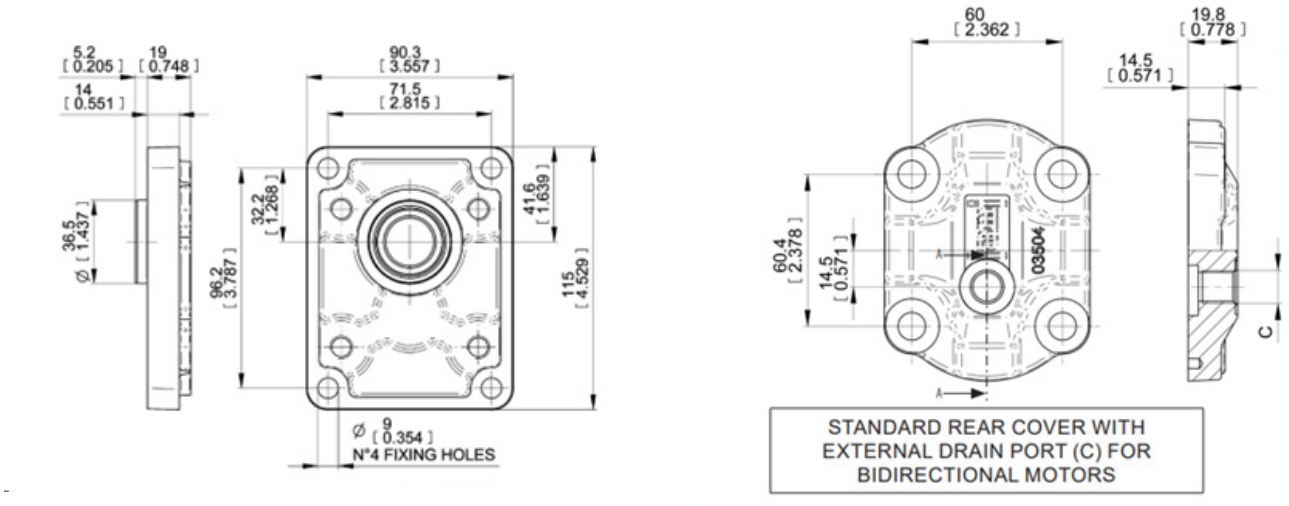
P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure

2ME Reversible Motors R28P1G & R82S2G

Aluminium Gear Motors
DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers - 1/4” BSPP Drain Port

Displacement	Pressure
From 4.5 to 26 cc/rev	Up to 280 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
2ME4RR28P1G	4.50	7/8" UNO	7/8" UNO	4000	250	280	$ 495.00
2ME6RR28P1G	6.20			4000	250	280	$ 495.00
2ME8RR28P1G	8.30			3600	250	280	$ 495.00
2ME11RR28P1G	11.30	1-1/16" UNO	1-1/16" UNO	3500	250	280	$ 506.00
2ME14RR28P1G	13.80			3400	250	280	$ 506.00
2ME16RR28P1G	16.00			3200	250	280	$ 506.00
2ME19RR28P1G	19.00			3200	220	240	$ 517.00
2ME22RR28P1G	22.50			3000	200	220	$ 517.00
2ME26RR28P1G	26.00			2850	180	200	$ 526.00



2ME Series Options and Accessories

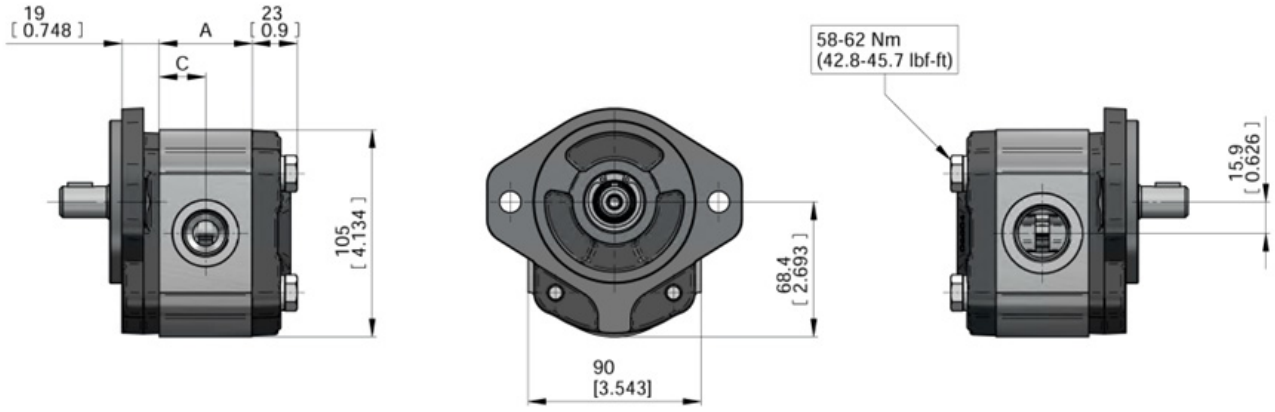
Model or Stock No.	Description	Add To List Price
1	Rear Ports	$ 32.00
IDV	Internal Drain	$ 110.00
VA	Check Valve, poppet type, cracking pressure 10psi, Input Flow up to 57LPM, up to 240bar	$ 144.00
VR	Adjustable Flow Control with Reverse Free Flow, Input Flow up to 45LPM, up to 240bar	$ 275.00

2ME Reversible Motors R28P1G & R82S2G

Aluminium Gear Motors
SAE “A” - 2 Bolt Mount - 5/8” Straight Keyed Shaf - Cast Iron End Covers - 1/4” BSPP Drain Port

Displacement	Pressure
From 4.5 to 26 cc/rev	Up to 280 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
2ME4RR82S2G	4.50	7/8" UNO	7/8" UNO	4000	250	280	$ 495.00
2ME6RR82S2G	6.20			4000	250	280	$ 495.00
2ME8RR82S2G	8.30			3600	250	280	$ 495.00
2ME11RR82S2G	11.30	1-1/16" UNO	1-1/16" UNO	3500	250	280	$ 506.00
2ME14RR82S2G	13.80			3400	250	280	$ 506.00
2ME16RR82S2G	16.00			3200	250	280	$ 506.00
2ME19RR82S2G	19.00			3200	220	240	$ 517.00
2ME22RR82S2G	22.50			3000	200	220	$ 517.00
2ME26RR82S2G	26.00			2850	180	200	$ 526.00



2ME Series Options and Accessories

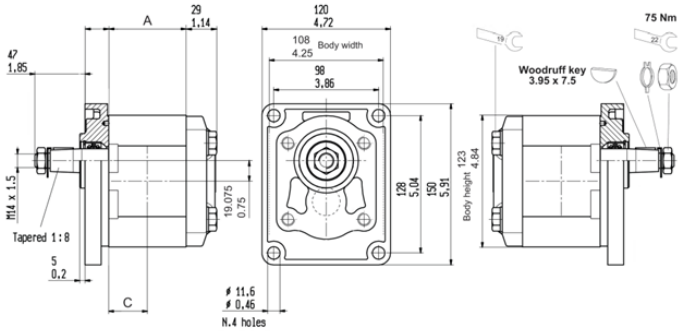
Stock No.	Description	List Price
2MESEALKIT	Motor Complete Seal Kit suit 28 & 82 shaft	$ 80.00
2MESEALKIT5485S2	Motor Complete Seal Kit suit 'A' Mount 11T Splined 54 & 3/4" Key 85 Shaft	$ 90.00
2MESEALKITVITON	Motor Complete Seal Kit Viton suit 28 & 82 shaft	$ 130.00
2MESEALKITVITON5485S2	Motor Complete Seal Kit Viton suit 'A' Mount 11T Splined 54 & 3/4" Key 85 Shaft	$ 150.00

25ME Reversible Motors R38P2, R87S3 & R87S2

Aluminium Gear Motors
DIN Group 3 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers
9/16” UNO Drain Port

Displacement	Pressure
From 16 to 44 cc/rev	Up to 280 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
25ME16RR38P2	16.00	1-1/16" UNO	1-1/16" UNO	3000	250	280	$ 800.00
25ME19RR38P2	19.30			3000	250	280	$ 800.00
25ME22RR38P2	22.20			3000	250	280	$ 800.00
25ME25RR38P2	25.20			3000	250	280	$ 850.00
25ME28RR38P2	27.60	1-5/16" UNO	1-5/16" UNO	3000	250	280	$ 850.00
25ME32RR38P2	32.40			3000	230	250	$ 850.00
25ME38RR38P2	38.10			2750	200	220	$ 900.00
25ME44RR38P2	44.20			2500	170	190	$ 900.00



Aluminium Gear Motors
SAE “B” - 2 Bolt Mount - 7/8” Straight Keyed Shaft - Cast Iron End Covers - 9/16” UNO Drain Port

Displacement	Pressure
From 16 to 44 cc/rev	Up to 280 Bar

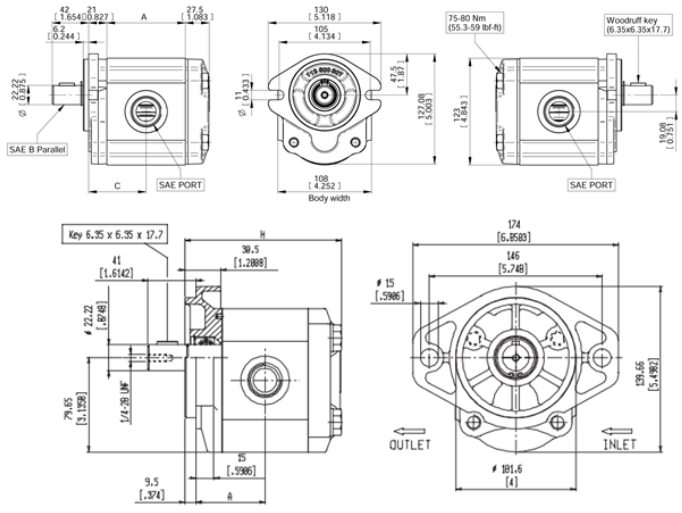
Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
25ME16RR87S3	16.00	1-1/16" UNO	1-1/16" UNO	3000	250	280	$ 800.00
25ME19RR87S3	19.30			3000	250	280	$ 800.00
25ME22RR87S3	22.20			3000	250	280	$ 800.00
25ME25RR87S3	25.20			3000	250	280	$ 850.00
25ME28RR87S3	27.60	1-5/16" UNO	1-5/16" UNO	3000	250	280	$ 850.00
25ME32RR87S3	32.40			3000	230	250	$ 850.00
25ME38RR87S3	38.10			2750	200	220	$ 900.00
25ME44RR87S3	44.20			2500	170	190	$ 900.00

25ME Reversible Motors R38P2, R87S3 & R87S2

Aluminium Gear Motors
SAE “A” - 2 Bolt Mount - 7/8” Straight Keyed Shaft - Cast Iron End Covers - 9/16” UNO Drain Port

Displacement	Pressure
From 6.5 to 26.60 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
25ME16RR87S2	16.00	1-1/16" UNO	1-1/16" UNO	3000	250	280	$ 800.00
25ME19RR87S2	19.30			3000	250	280	$ 800.00
25ME22RR87S2	22.20			3000	250	280	$ 800.00
25ME25RR87S2	25.20			3000	250	280	$ 850.00
25ME28RR87S2	27.60	1-5/16" UNO	1-5/16" UNO	3000	250	280	$ 850.00
25ME32RR87S2	32.40			3000	230	250	$ 850.00
25ME38RR87S2	38.10			2750	200	220	$ 900.00
25ME44RR87S2	44.20			2500	170	190	$ 900.00



2MGE Series Options and Accessories

Model or Stock No.	Description	Add To List Price
1	Rear Ports	$ 65.00
IDV	Internal Drain	$ 110.00
VA	Check Valve, poppet type, cracking pressure 10psi, Input Flow up to 57LPM, up to 240bar	$ 144.00
VR	Adjustable Flow Control with Reverse Free Flow, Input Flow up to 45LPM, up to 240bar	$ 275.00

25ME Series Options and Accessories

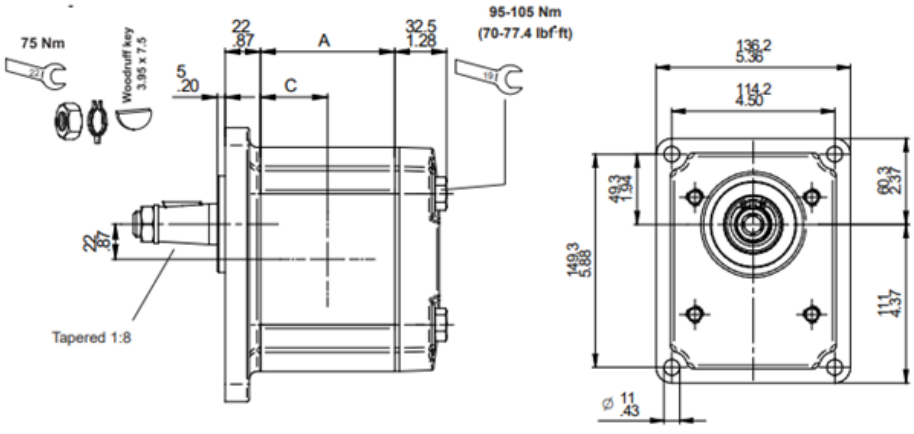
Stock No.	Description	List Price
2MESEALKIT	Motor Complete Seal Kit suit 28 & 82 shaft	$ 80.00
2MESEALKIT5485S2	Motor Complete Seal Kit suit 'A' Mount 11T Splined 54 & 3/4" Key 85 Shaft	$ 90.00
2MESEALKITVITON	Motor Complete Seal Kit Viton suit 28 & 82 shaft	$ 130.00
2MESEALKITVITON5485S2	Motor Complete Seal Kit Viton suit 'A' Mount 11T Splined 54 & 3/4" Key 85 Shaft	$ 150.00

3ME Reversible Motors G38P2, R87S3 & R88S3

Aluminium Gear Motors
DIN Group 3 - 4 Bolt Mount - 1:8 Taper Shaft - Cast Iron End Covers
3/8” BSPP Drain Port

Displacement	Pressure
From 27 to 75 cc/rev	Up to 280 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
3ME27RG38P2	27.00	1" BSPP	1" BSPP	3000	250	280	$ 900.00
3ME33RG38P2	33.50			3000	250	280	$ 900.00
3ME38RG38P2	38.70			2750	250	280	$ 950.00
3ME46RG38P2	46.90			2750	250	270	$ 1000.00
3ME55RG38P2	54.10			2500	220	240	$ 1000.00
3ME65RG38P2	63.10			2500	200	220	$ 1100.00
3ME75RG38P2	73.40			2500	180	200	$ 1200.00



Aluminium Gear Motors
SAE “B” - 2 Bolt Mount - 7/8” Straight Keyed Shaft - Cast Iron End Covers - 9/16” UNO Drain Port

Displacement	Pressure
From 27 to 75 cc/rev	Up to 280 Bar

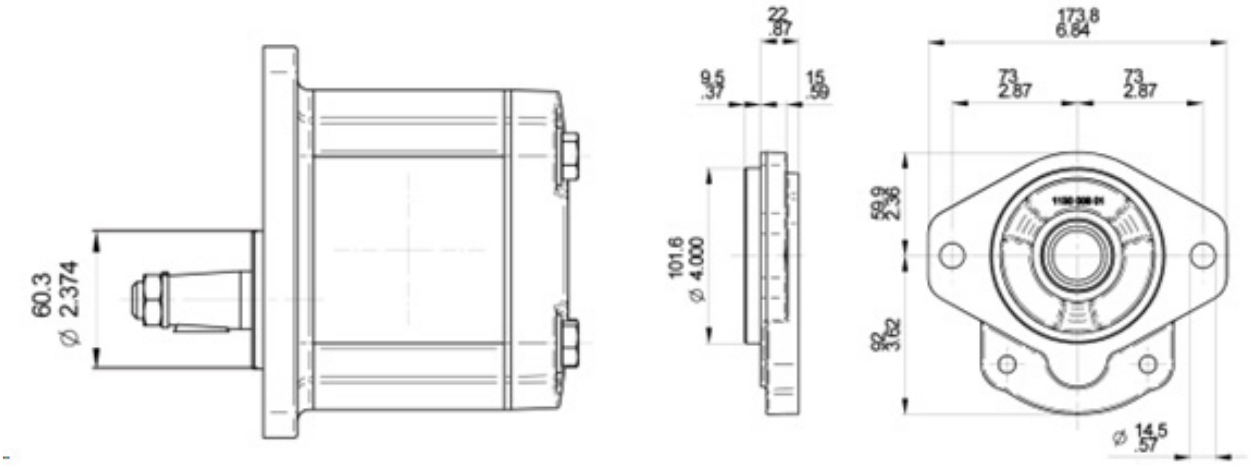
Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
3ME27RR87S3	27.00	1-1/16" UNO	1-1/16" UNO	3000	250	280	$ 900.00
3ME33RR87S3	33.50			3000	250	280	$ 900.00
3ME38RR87S3	38.70			2750	250	280	$ 950.00
3ME46RR87S3	46.90	1-5/16" UNO	1-5/16" UNO	2750	250	270	$ 1000.00
3ME55RR87S3	54.10			2500	220	240	$ 1000.00
3ME65RR87S3	63.10			2500	200	220	$ 1100.00
3ME75RR87S3	73.40				180	200	$ 1200.00

3ME Reversible Motors G38P2, R87S3 & R88S3

Aluminium Gear Motors
SAE “B” - 2 Bolt Mount - 1” Straight Keyed Shaft - Cast Iron End Covers - 9/16” UNO Drain Port

Displacement	Pressure
From 27 to 75 cc/rev	Up to 280 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
3ME27RR88S3	27.00	1-1/16" UNO	1-1/16" UNO	3000	250	280	$ 900.00
3ME33RR88S3	33.50			3000	250	280	$ 900.00
3ME38RR88S3	38.70			2750	250	280	$ 950.00
3ME46RR88S3	46.90	1-5/16" UNO	1-5/16" UNO	2750	250	270	$ 1000.00
3ME55RR88S3	54.10			2500	220	240	$ 1000.00
3ME65RR88S3	63.10			2500	200	220	$ 1100.00
3ME75RR88S3	73.40			2500	180	200	$ 1200.00



3ME Series Options and Accessories

Stock No.	Description	List Price
3MESEALKIT	Motor Complete Seal Kit suit 38P2	$ 120.00
3MESEALKITS3	Motor Complete Seal Kit suit 87S3	$ 120.00
3MESEALKITVITON	Motor Complete Seal Kit Viton suit 38P2	$ 174.00
3MESEALKITVITONS3	Motor Complete Seal Kit Viton suit 87S3	$ 174.00
3MESEALKIT88S3	Shaft Seal Kit suit 88S3	$ 80.00

HC-PTO Driven Gear Pumps

PTO Driven Gear Pumps

Stock No.	Shaft Configuration	Max. PTO Speed	Displacement	Max. Pressure		Port Size		Minimum Hose Sizes		List Price
		RPM	cu. in/rev	BAR	PSI	Inlet	Outlet	Inlet	Outlet	
HCPTO1A[1]	6 Tooth 1-3/8" dia	540	9.9	155	2250	#16 SAE	#12 SAE	1-1/4"	3/4"	$ 2530.00
HCPTO2A[2]	6 Tooth 1-3/8" dia	540	5.7					1"	1/2"	$ 2185.00
HCPTO3A[1]	21 Tooth 1-3/8" dia	1000	5.7					1-1/4"	3/4"	$ 2185.00
HCPTO7A[2]	6 Tooth 1-3/8" dia	540	3.6					1"	1/2"	$ 2185.00

1 #16 SAE to 1-1/4" Hose Barb Adaptor included.
2 #16 SAE to 1" Hose Barb Adaptor included.

Performance Data - Pumps: HP/GPM/PSI

		INPUT HP	GPM OUTPUT	INPUT HP	GPM OUTPUT	INPUT HP	GPM OUTPUT	INPUT HP	GPM OUTPUT
Model	RPM	500 PSI		1000 PSI		1500 PSI		2000 PSI	
HCPTO1A	540	8.4	21.4	16.1	21.0	23.8	21.0	32.1	21.0
HCPTO2A	540	4.9	12.2	9.3	11.9	13.8	11.6	18.1	11.4
HCPTO3A	1000	9.3	23.4	17.4	23.0	25.9	22.6	34.3	22.4
HCPTO7A	540	2.9	7.6	5.9	7.2	8.8	7.2	11.9	7.1

Unique Features:

- Self-adjusting wear plates on BOTH SIDES of the gears.
- Proper size HOSE ADAPTORS are provided for inlet ports.
- TWO OUTLET PORTS are provided with a PLUG to seal unused port and a proper HOSE ADAPTOR.
- Centre section is made of high strength aluminium alloy EXTRUSIONS for added safety.

Plus Standard Features:

- Reliable
- Efficient
- Roller Bearings
- Run-fitted aluminium body
- Internal spline with thru-drive feature
- High-tensile cast iron end plates
- Slips on to tractor PTO (no gear box required)
- Two-bolt installation on farm tractors of all sizes

Ideal For ...

- Tractor front-end loaders
- Pull-type cotton pickers
- Cotton balers (module)
- Tractors imported without integral hydraulics
- Landscaping equipment
- Rotary mowers
- Street sweepers

Section 8A

Cast Iron Gear Pumps & Motors

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Salami	2PGE Pumps G60R & R60R	8A.82
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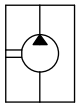
MAKE	MODEL	PAGE

AP250 Gear Pumps

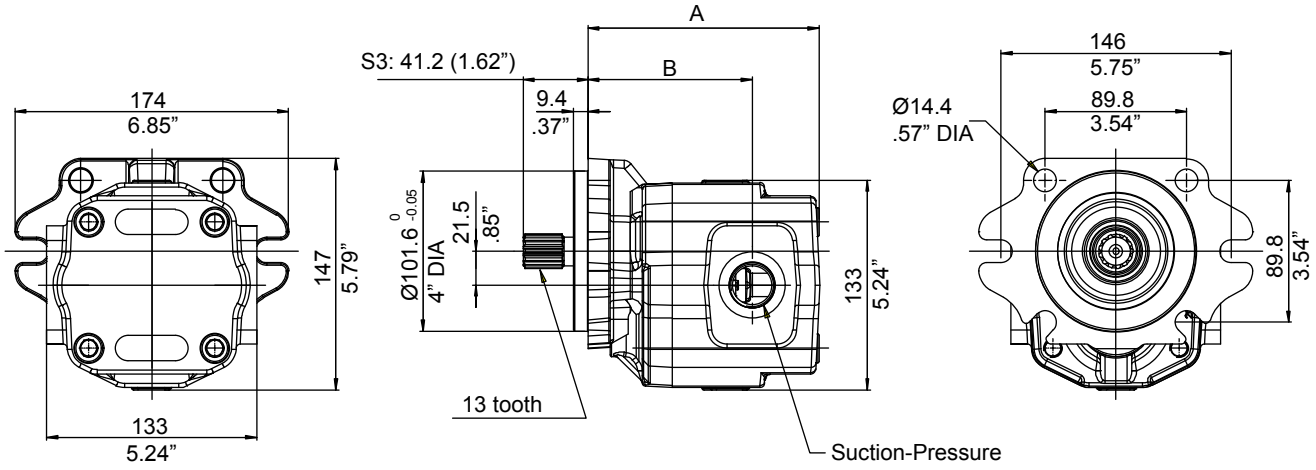
SAE 'B' 2 and 4 Bolt Mount - 7/8" 13 Tooth Spline - Cast Iron

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
AP25015D*	15	1-5/16" UN	1-1/16" UN	128	86	3500	300	310	320	$ 892.00
AP25019D*	19	1-5/16" UN	1-1/16" UN	132	90	3500	300	310	320	$ 892.00
AP25023D*	23	1-5/16" UN	1-1/16" UN	136	94	3500	300	310	320	$ 960.00
AP25026D*	26	1-5/16" UN	1-1/16" UN	140	97	3500	300	310	320	$ 960.00
AP25029D*	29	1-5/16" UN	1-1/16" UN	143	100	3500	300	310	320	$ 1000.00
AP25033D*	33	1-5/16" UN	1-1/16" UN	147	104	3500	300	310	320	$ 1000.00
AP25036D*	36	1-5/8" UN	1-5/16" UN	150	117	3500	300	310	320	$ 1050.00

AP



S38B8S
S58B8S



Pump description example:

AP250 / 19_D_S38B8S

Pump size

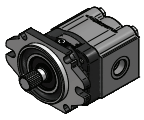
Displacement

Series

Rotation (S = Left-hand rotation, D = Right-hand rotation)

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

CROSS



PG330 Gear Pumps

SAE ‘B’ 2 - 4 Bolt Mount 7/8” Dia 13 Tooth Splined Shaft - Clockwise - Cast Iron

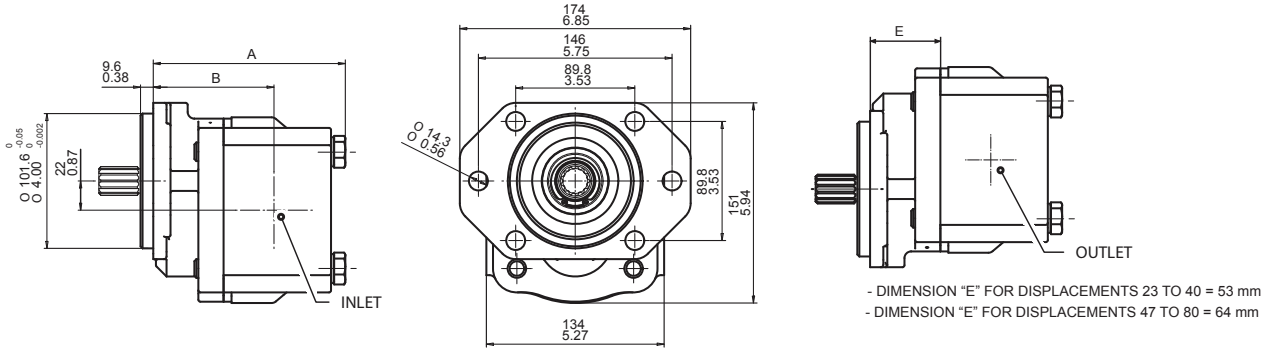
Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
615100002	PG33023DR55S3	23.40	1.43	1-5/16” UNO	1-1/16” UNO	140.8	88	260	3800	$ 853.00
615100022	PG33028DR55S3	28.60	1.74			144.8	91	280	4000	$ 862.00
615100032	PG33034DR55S3	34.40	2.10			149.3	95.5	280	4000	$ 873.00
615100042	PG33040DR55S3	40.30	2.46			153.8	100	260	3800	$ 888.00
615100052	PG33047DR55S3	47.40	2.89	1-5/8” UNO	1-5/16” UNO	176.3	114	280	4000	$ 906.00
615100072	PG33055DR55S3	55.20	3.37			182.3	120	260	3800	$ 949.00
615100082	PG33064DR55S3	64.30	3.92			189.3	122	240	3500	$ 993.00
615100082	PG33072DR55S3	73.40	4.48			196.3	125	220	3200	$ 1037.00
615111892	PG33080DR55S3	80.60	4.91			202.3	129	200	2900	$ 1080.00

SAE ‘B’ 2 - 4 Bolt Mount 7/8” Dia Straight Keyed Shaft - Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
615111852	PG33023DR87S3	23.40	1.43	1-5/16” UNO	1-1/16” UNO	140.8	88	260	3800	$ 853.00
615111862	PG33028DR87S3	28.60	1.74			144.8	91	280	4000	$ 862.00
615111872	PG33034DR87S3	34.40	2.10			149.3	95.5	280	4000	$ 873.00
615111882	PG33040DR87S3	40.30	2.46			153.8	100	260	3800	$ 888.00

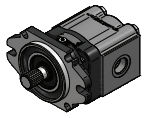
SAE ‘B’ 2 - 4 Bolt Mount 1” Dia Straight Keyed Shaft - Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
615111892	PG33023DR88S3	23.40	1.43	1-5/16” UNO	1-1/16” UNO	140.8	88	260	3800	$ 853.00
615111902	PG33028DR88S3	28.60	1.74			144.8	91	280	4000	$ 862.00
615111912	PG33034DR88S3	34.40	2.10			149.3	95.5	280	4000	$ 873.00
615111922	PG33040DR88S3	40.30	2.46			153.8	100	260	3800	$ 888.00
615111932	PG33047DR88S3	47.40	2.89	1-5/8” UNO	1-5/16” UNO	176.3	114	280	4000	$ 906.00
615111942	PG33055DR88S3	55.20	3.37			182.3	120	260	3800	$ 949.00
615111952	PG33064DR88S3	64.30	3.92			189.3	122	240	3500	$ 993.00
615111962	PG33072DR88S3	73.40	4.48			196.3	125	220	3200	$ 1037.00
615111972	PG33080DR88S3	80.60	4.91			202.3	129	200	2900	$ 1080.00



- DIMENSION “E” FOR DISPLACEMENTS 23 TO 40 = 53 mm
- DIMENSION “E” FOR DISPLACEMENTS 47 TO 80 = 64 mm

CROSS



PG330 Gear Pumps

SAE 'B' 2 - 4 Bolt Mount 7/8" Dia 13 Tooth Splined Shaft - Clockwise - Cast Iron

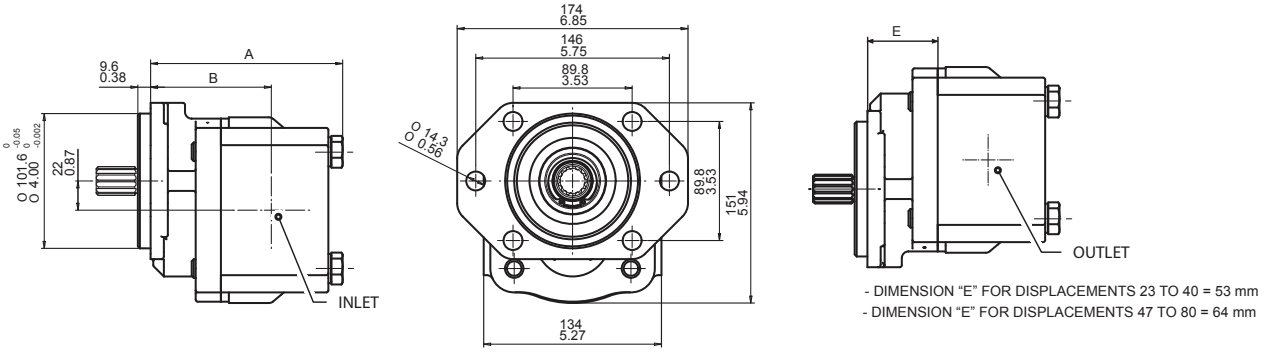
Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	PG33023DS55S3	23.40	1.43	Split Flange 1-1/4"	Split Flange 3/4"	140.8	88	260	3800	$ 853.00
	PG33028DS55S3	28.60	1.74			144.8	91	280	4000	$ 862.00
	PG33034DS55S3	34.40	2.10			149.3	95.5	280	4000	$ 873.00
	PG33040DS55S3	40.30	2.46			153.8	100	260	3800	$ 888.00
	PG33047DS55S3	47.40	2.89	Split Flange 1-1/2"	Split Flange 1-1/4"	176.3	114	280	4000	$ 906.00
	PG33055DS55S3	55.20	3.37			182.3	120	260	3800	$ 949.00
	PG33064DS55S3	64.30	3.92			189.3	122	240	3500	$ 993.00
	PG33072DS55S3	73.40	4.48			196.3	125	220	3200	$ 1037.00
	PG33080DS55S3	80.60	4.91			202.3	129	200	2900	$ 1080.00

SAE 'B' 2 - 4 Bolt Mount 7/8" Dia Straight Keyed Shaft - Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	PG33023DS87S3	23.40	1.43	Split Flange 1-1/4"	Split Flange 3/4"	140.8	88	260	3800	$ 853.00
	PG33028DS87S3	28.60	1.74			144.8	91	280	4000	$ 862.00
	PG33034DS87S3	34.40	2.10			149.3	95.5	280	4000	$ 873.00
	PG33040DS87S3	40.30	2.46			153.8	100	260	3800	$ 888.00

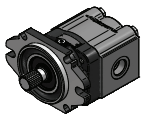
SAE 'B' 2 - 4 Bolt Mount 1" Dia Straight Keyed Shaft - Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	PG33023DS88S3	23.40	1.43	Split Flange 1-1/4"	Split Flange 3/4"	140.8	88	260	3800	$ 853.00
	PG33028DS88S3	28.60	1.74			144.8	91	280	4000	$ 862.00
	PG33034DS88S3	34.40	2.10			149.3	95.5	280	4000	$ 873.00
	PG33040DS88S3	40.30	2.46			153.8	100	260	3800	$ 888.00
	PG33047DS88S3	47.40	2.89	Split Flange 1-1/2"	Split Flange 1-1/4"	176.3	114	280	4000	$ 906.00
	PG33055DS88S3	55.20	3.37			182.3	120	260	3800	$ 949.00
	PG33064DS88S3	64.30	3.92			189.3	122	240	3500	$ 993.00
	PG33072DS88S3	73.40	4.48			196.3	125	220	3200	$ 1037.00
	PG33080DS88S3	80.60	4.91			202.3	129	200	2900	$ 1080.00



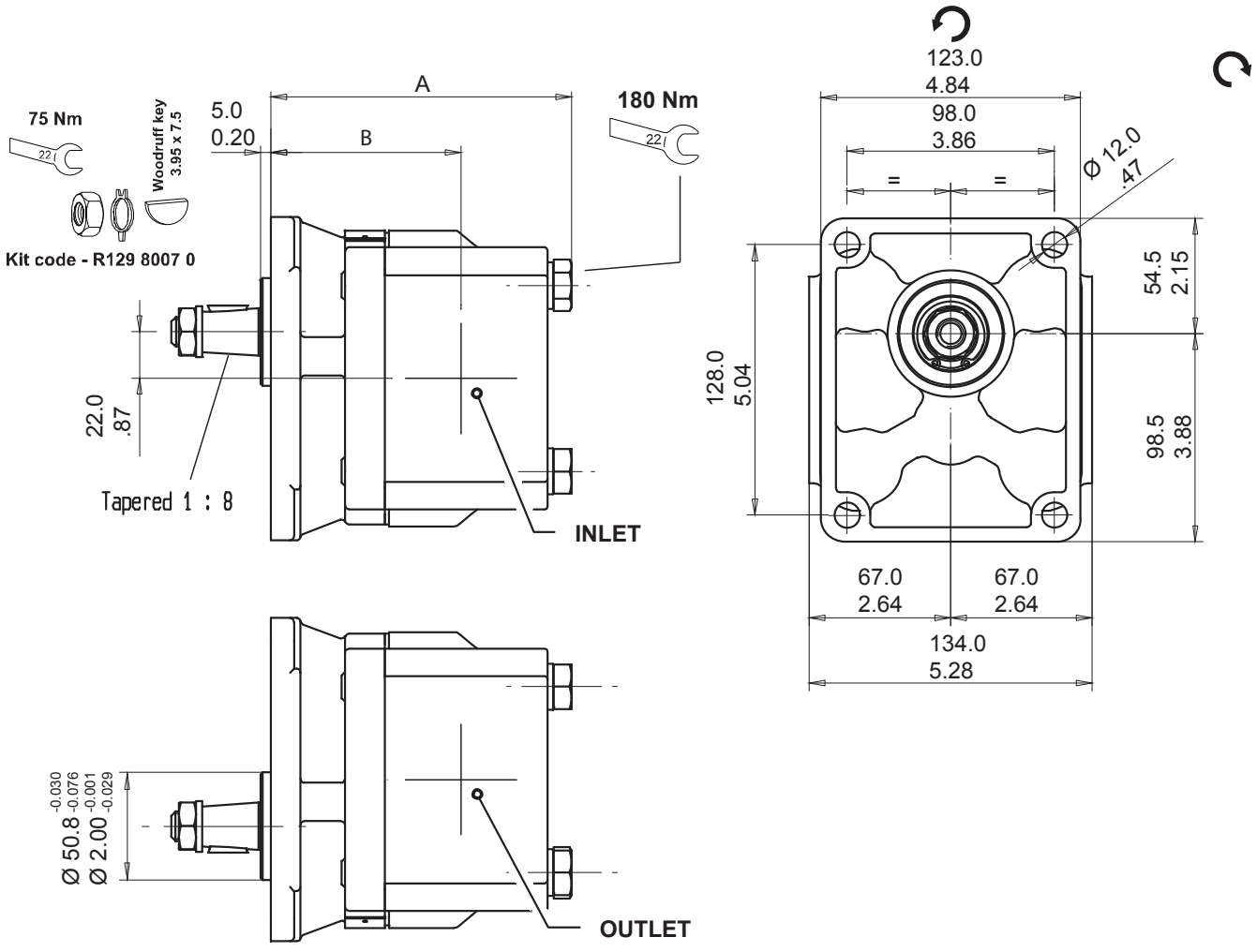
- DIMENSION "E" FOR DISPLACEMENTS 23 TO 40 = 53 mm
- DIMENSION "E" FOR DISPLACEMENTS 47 TO 80 = 64 mm

PG330 Gear Pumps

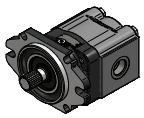


Group 3 Mount 1 : 8 Taper Shaft - Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	PG33023DR38P2	23.40	1.43	1-5/16" UNO	1-1/16" UNO	140.8	88	260	3800	$ 853.00
	PG33028DR38P2	28.60	1.74			144.8	91	280	4000	$ 862.00
	PG33034DR38P2	34.40	2.10			149.3	95.5	280	4000	$ 873.00
	PG33040DR38P2	40.30	2.46			153.8	100	260	3800	$ 888.00
	PG33047DR38P2	47.40	2.89	1-5/8" UNO	1-5/16" UNO	176.3	114	280	4000	$ 906.00
	PG33055DR38P2	55.20	3.37			182.3	120	260	3800	$ 949.00
	PG33064DR38P2	64.30	3.92			189.3	122	240	3500	$ 993.00
	PG33072DR38P2	73.40	4.48			196.3	125	220	3200	$ 1037.00
	PG33080DR38P2	80.60	4.91			202.3	129	200	2900	$ 1080.00



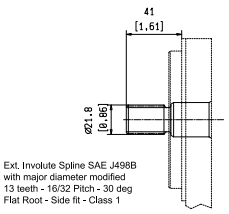
PG330 Gear Pumps



Options

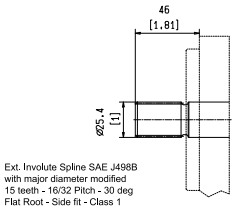
Model Code	Description	Add To List Price
R3	2 - 4 Bolt SAE B Mount c/w Outrigger Bearing (Medium Load)	$ 153.00
57 R8	2 - 4 Bolt SAE C Mount & 1-1/4" Dia. 14 tooth Splined c/w Outrigger Bearing (Heavy Load)	$ 245.00
89 R8	2 - 4 Bolt SAE C Mount & 1-1/4" Dia. Straight Keyed c/w Outrigger Bearing (Heavy Load)	$ 245.00
1	UNO Rear Ports	$ 110.00

SAE "B" SPLINED — **Code 55**



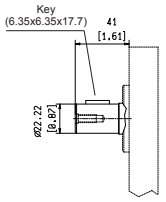
MAX 330 Nm (2921 lbf in)

SAE "BB" SPLINED — **Code 56**



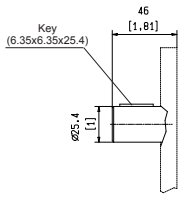
MAX 480 Nm (4250 lbf in)

SAE "B" STRAIGHT KEYED — **Code 87**



MAX 220 Nm (1950 lbf in)

SAE "BB" STRAIGHT KEYED — **Code 88**

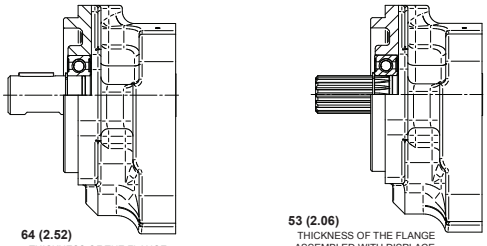


MAX 320 Nm (2830 lbf in)

OUTRIGGER BEARING (medium loads)

SAE B mounting flange

R3	Available assembling shafts			
Splined	55	56		
Straight	87			

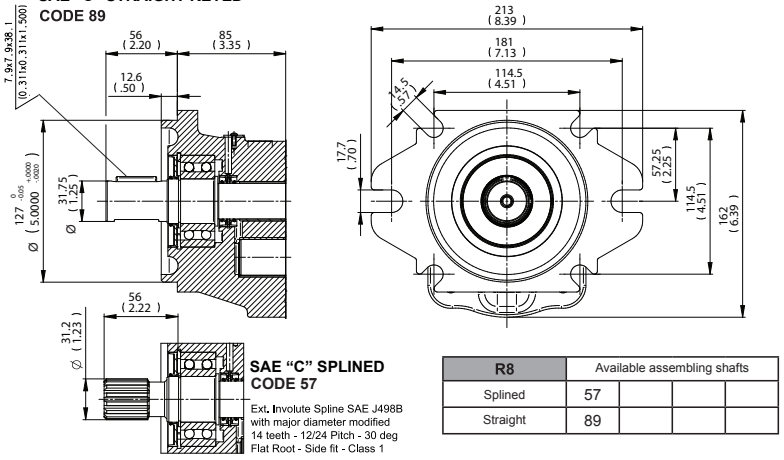


64 (2.52)
THICKNESS OF THE FLANGE ASSEMBLED WITH DISPLACE-MENTS: 47 - 55 - 64 - 72 - 80

53 (2.06)
THICKNESS OF THE FLANGE ASSEMBLED WITH DISPLACE-MENTS: 23 - 28 - 34 - 40

OUTRIGGER BEARING (heavy loads)

SAE "C" STRAIGHT KEYED
CODE 89



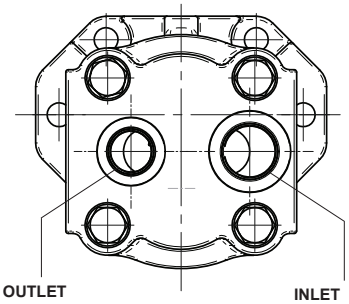
SAE "C" SPLINED
CODE 57

Ext. Involute Spline SAE J498B
with major diameter modified
14 teeth - 12/24 Pitch - 30 deg
Flat Root - Side fit - Class 1

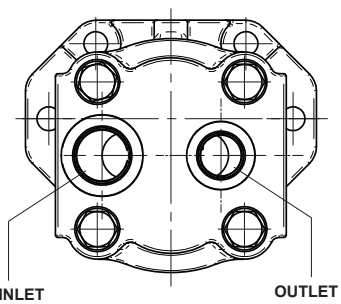
R8	Available assembling shafts			
Splined	57			
Straight	89			

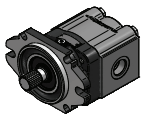
RELEASE WITH REAR PORTS

CLOCKWISE ROTATION PUMP/MOTOR



ANTI-CLOCKWISE ROTATION PUMP/MOTOR





PG331 Gear Pumps

SAE 'B' 2 - 4 Bolt Mount 7/8" Dia 13 Tooth Splined Shaft - Clockwise - Cast Iron

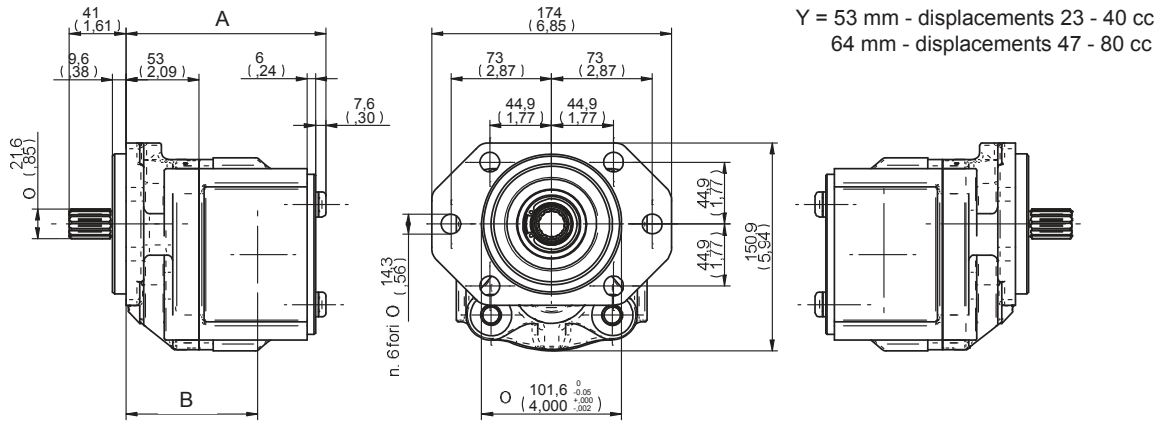
Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
615200002	PG33123DR55S3	23.40	1.43	1-5/16" UNO	1-1/16" UNO	140.8	88	260	3800	$ 919.00
615200012	PG33128DR55S3	28.60	1.74			144.8	91	280	4000	$ 928.00
615200022	PG33134DR55S3	34.40	2.10			149.3	95.5	280	4000	$ 938.00
615200032	PG33140DR55S3	40.30	2.46			153.8	100	260	3800	$ 954.00
615200042	PG33147DR55S3	47.40	2.89	1-5/8" UNO	1-5/16" UNO	176.3	114	280	4000	$ 971.00
615200052	PG33155DR55S3	55.20	3.37			182.3	120	260	3800	$ 1015.00
615200062	PG33164DR55S3	64.30	3.92			189.3	122	240	3500	$ 1058.00
615200072	PG33172DR55S3	73.40	4.48			196.3	125	220	3200	$ 1102.00
615200082	PG33180DR55S3	80.60	4.91			202.3	129	200	2900	$ 1150.00

SAE 'B' 2 - 4 Bolt Mount 7/8" Dia Straight Keyed Shaft - Clockwise - Cast Iron

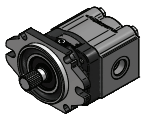
Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	PG33123DR87S3	23.40	1.43	1-5/16" UNO	1-1/16" UNO	140.8	88	260	3800	$ 919.00
	PG33128DR87S3	28.60	1.74			144.8	91	280	4000	$ 928.00
	PG33134DR87S3	34.40	2.10			149.3	95.5	280	4000	$ 938.00
	PG33140DR87S3	40.30	2.46			153.8	100	260	3800	$ 954.00

SAE 'B' 2 - 4 Bolt Mount 1" Dia Straight Keyed Shaft - Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	PG33123DR88S3	23.40	1.43	1-5/16" UNO	1-1/16" UNO	140.8	88	260	3800	$ 919.00
	PG33128DR88S3	28.60	1.74			144.8	91	280	4000	$ 928.00
	PG33134DR88S3	34.40	2.10			149.3	95.5	280	4000	$ 938.00
	PG33140DR88S3	40.30	2.46			153.8	100	260	3800	$ 954.00
	PG33147DR88S3	47.40	2.89	1-5/8" UNO	1-5/16" UNO	176.3	114	280	4000	$ 971.00
	PG33155DR88S3	55.20	3.37			182.3	120	260	3800	$ 1015.00
	PG33164DR88S3	64.30	3.92			189.3	122	240	3500	$ 1058.00
	PG33172DR88S3	73.40	4.48			196.3	125	220	3200	$ 1102.00
	PG33180DR88S3	80.60	4.91			202.3	129	200	2900	$ 1150.00



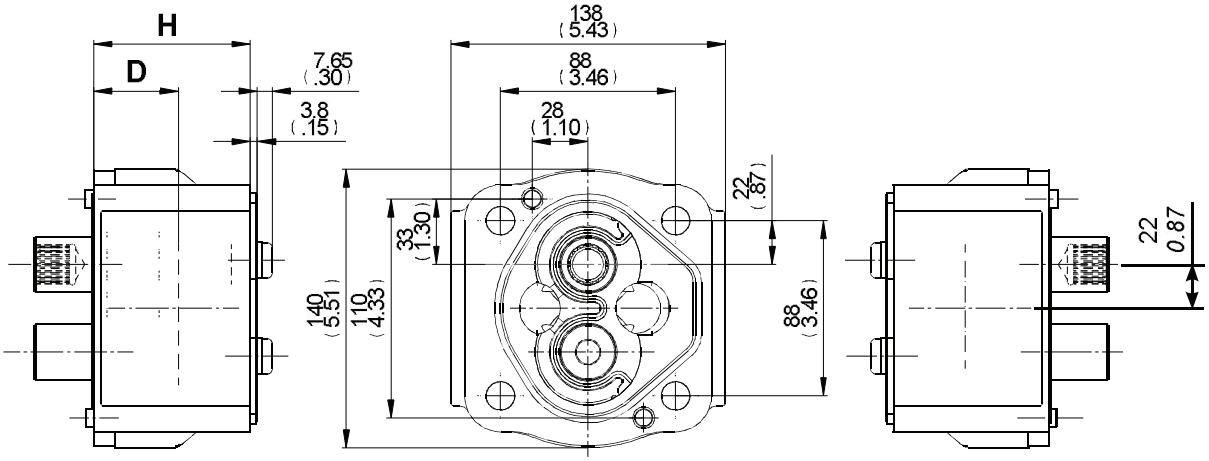
Y = 53 mm - displacements 23 - 40 cc
64 mm - displacements 47 - 80 cc



PG331 Gear Pumps

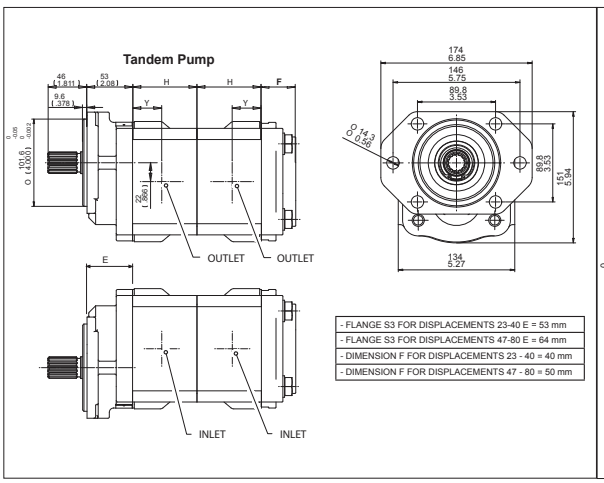
Intermediate / Rear R63R

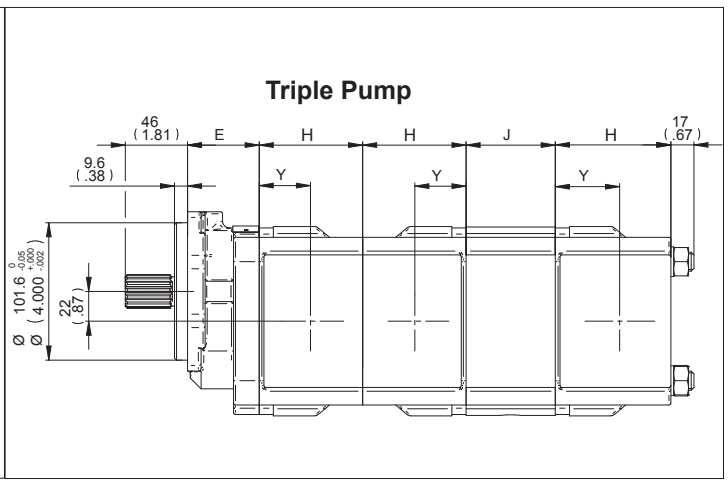
Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	D mm	H mm	BAR	PSI	
615210172	PG33123DR63R	23.40	1.43	1-5/16" UNO	1-1/16" UNO	31	70	260	3800	$ 832.00
615210182	PG33128DR63R	28.60	1.74			35	74	280	4000	$ 840.00
615210192	PG33134DR63R	34.40	2.10			39.5	78.5	280	4000	$ 851.00
615210202	PG33140DR63R	40.30	2.46			44	83	260	3800	$ 866.00
615210212	PG33147DR63R	47.40	2.89	1-5/8" UNO	1-5/16" UNO	49.5	94.5	280	4000	$ 884.00
615210222	PG33155DR63R	55.20	3.37			55.5	100.5	260	3800	$ 928.00
615210232	PG33164DR63R	64.30	3.92			62.5	107.5	240	3500	$ 971.00
615210242	PG33172DR63R	73.40	4.48			69.5	114.5	220	3200	$ 1015.00



Options

Model Code	Description	Add To List Price
Tandem Pump	PG331 + PG331 + Tandem Pump Kit - R15200002	$ 150.00
Triple Pump	PG331 + PG331 + PG331 + Tandem Pump Kit - R15160030 / R15160040	$ 400.00





2PGE Pumps G28P1

Cast Iron Gear Pumps
DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft

Displacement	Pressure
From 6.5 to 26.60 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PGE6DG28P1	6.50	3/4” BSPP	1/2” BSPP	4000	270	300	320	$ 500.00
2PGE8DG28P1	8.20			3500	270	300	320	$ 500.00
2PGE11DG28P1	11.50			3500	270	300	320	$ 530.00
2PGE14DG28P1	13.80			3500	270	300	320	$ 530.00
2PGE16DG28P1	16.60			3000	270	300	320	$ 530.00
2PGE19DG28P1	19.40			3000	270	300	320	$ 560.00
2PGE22DG28P1	22.90	1/2” BSPP		2750	250	280	300	$ 580.00
2PGE26DG28P1	26.60			2500	230	260	280	$ 580.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure

2PGE Series Options and Accessories

Stock No.	Description	List Price
2PETANDEMKIT	Tandem Kit 2PE	$ 85.00
412090043	Tandem Kit 2PE-15PE	$ 150.00
412090044	Tandem Kit 2PE-15PE Right Hand Common Suction	$ 150.00
412090045	Tandem Kit 2PE-15PE Left Hand Common Suction	$ 150.00
R12275013	Cover c/w Relief Valve 15-30bar	$ 150.00
R12275020	Cover c/w Relief Valve 31-60bar	$ 150.00
R12275040	Cover c/w Relief Valve 61-120bar	$ 150.00
R12275050	Cover c/w Relief Valve 121-170bar	$ 150.00
R12275060	Cover c/w Relief Valve 171-250bar	$ 150.00
2PESEALKIT	Pump Complete Seal Kit suit 28P1,25B1,82S2,52S2	$ 85.00
2PESHAFTSEALKIT	Shaft Seal Kit suit 28P1,25B1,82S2,52S2	$ 50.00
2PESEALKIT5485S2	Pump Complete Seal Kit suit 85S2,54S2	$ 100.00
2PESHAFTSEALKIT5485S2	Shaft Seal Kit suit 85S2,54S2	$ 60.00
2PESEALKITVITON	Pump Complete Seal Kit Viton suit 28P1,25B1,82S2,52S2	$ 100.00
2PESEALKITVITON5485S2	Pump Complete Seal Kit Viton suit 85S2,54S2	$ 120.00

2PGE Pumps R82S2 & R85S2

Cast Iron Gear Pumps
SAE 'A' Group 2 - 2 Bolt Mount - 5/8" & 3/4" Straight Key Shaft

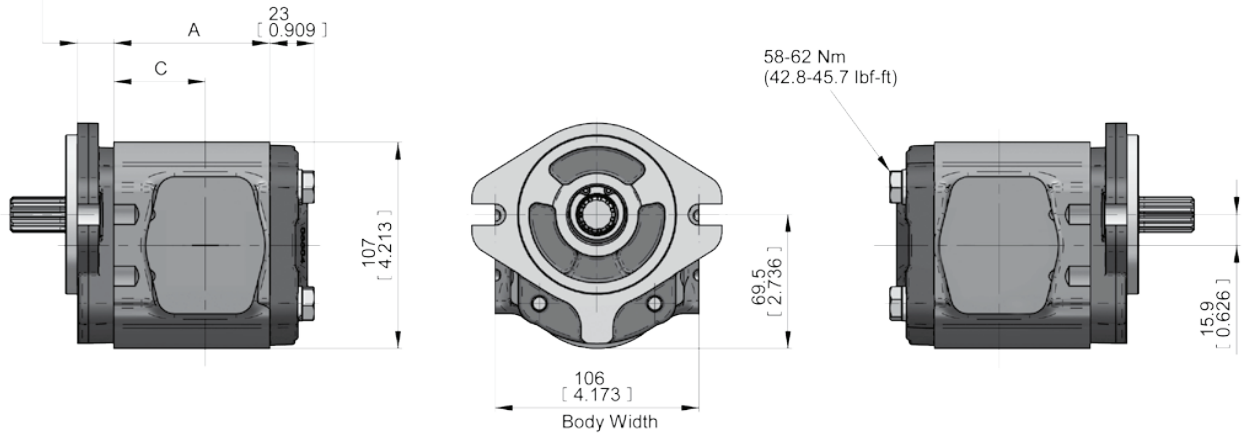
Displacement	Pressure
From 6.5 to 26.60 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PGE6DR82S2	6.50	1-1/16" UNO	7/8" UNO	4000	270	300	320	$ 500.00
2PGE8DR82S2	8.20			3500	270	300	320	$ 500.00
2PGE11DR82S2	11.50			3500	270	300	320	$ 530.00
2PGE14DR82S2	13.80			3500	270	300	320	$ 530.00
2PGE16DR82S2	16.60			3000	270	300	320	$ 530.00
2PGE19DR82S2	19.40			3000	270	300	320	$ 560.00
2PGE22DR82S2	22.90	1-5/16" UNO		2750	250	280	300	$ 580.00
2PGE26DR82S2	26.60			2500	230	260	280	$ 580.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PGE6DG28P1	6.50	1-1/16" UNO	7/8" UNO	4000	270	300	320	$ 500.00
2PGE8DG28P1	8.20			3500	270	300	320	$ 500.00
2PGE11DG28P1	11.50			3500	270	300	320	$ 530.00
2PGE14DG28P1	13.80			3500	270	300	320	$ 530.00
2PGE16DG28P1	16.60			3000	270	300	320	$ 530.00
2PGE19DG28P1	19.40			3000	270	300	320	$ 560.00
2PGE22DG28P1	22.90	1-5/16" UNO		2750	250	280	300	$ 580.00
2PGE26DG28P1	26.60			2500	230	260	280	$ 580.00

For flanges code:
P1-B1-S2-S3, this dimension is 19 mm (0.75 in.)
B4-B5-C1, this dimension is 16.5 mm (0.65 in.)

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



2PGE Pumps R52S2 & R54S2

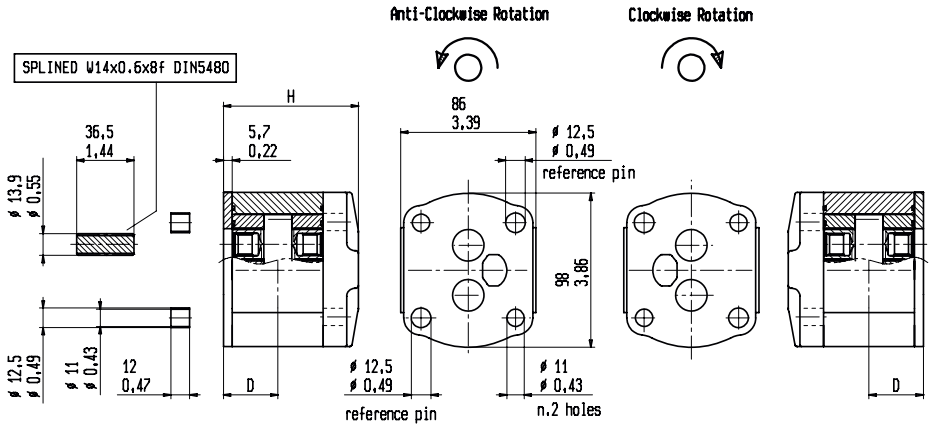
Cast Iron Gear Pumps
SAE 'A' Group 2 - 2 Bolt Mount - 5/8" 9T & 3/4" 11T Splined Shaft

Displacement	Pressure
From 6.5 to 26.60 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PGE6DR52S2	6.50	1-1/16" UNO	7/8" UNO	4000	270	300	320	$ 500.00
2PGE8DR52S2	8.20			3500	270	300	320	$ 500.00
2PGE11DR52S2	11.50			3500	270	300	320	$ 530.00
2PGE14DR52S2	13.80			3500	270	300	320	$ 530.00
2PGE16DR52S2	16.60			3000	270	300	320	$ 530.00
2PGE19DR52S2	19.40			3000	270	300	320	$ 560.00
2PGE22DR52S2	22.90	1-5/16" UNO		2750	250	280	300	$ 580.00
2PGE26DR52S2	26.60			2500	230	260	280	$ 580.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PGE6DR54S2	6.50	1-1/16" UNO	7/8" UNO	4000	270	300	320	$ 500.00
2PGE8DR54S2	8.20			3500	270	300	320	$ 500.00
2PGE11DR54S2	11.50			3500	270	300	320	$ 530.00
2PGE14DR54S2	13.80			3500	270	300	320	$ 530.00
2PGE16DR54S2	16.60			3000	270	300	320	$ 530.00
2PGE19DR54S2	19.40			3000	270	300	320	$ 560.00
2PGE22DR54S2	22.90	1-5/16" UNO		2750	250	280	300	$ 580.00
2PGE26DR54S2	26.60			2500	230	260	280	$ 580.00

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



Displacement		Dimensions			
cm³/rev	cu.in./rev	D		H	
		mm	in	mm	in
4.5	0.27	29.25	1.15	75.3	2.96
6.2	0.40	29.25	1.15	75.3	2.96
8.3	0.50	32.10	1.26	81.0	3.19
11.3	0.68	35.50	1.39	87.9	3.46
13.8	0.84	37.45	1.47	91.7	3.61
16	1.01	39.45	1.55	95.7	3.77
19	1.15	43.50	1.71	103.8	4.09
22.5	1.37	46.20	1.82	109.2	4.30
26	1.58	49.10	1.93	115.0	4.53

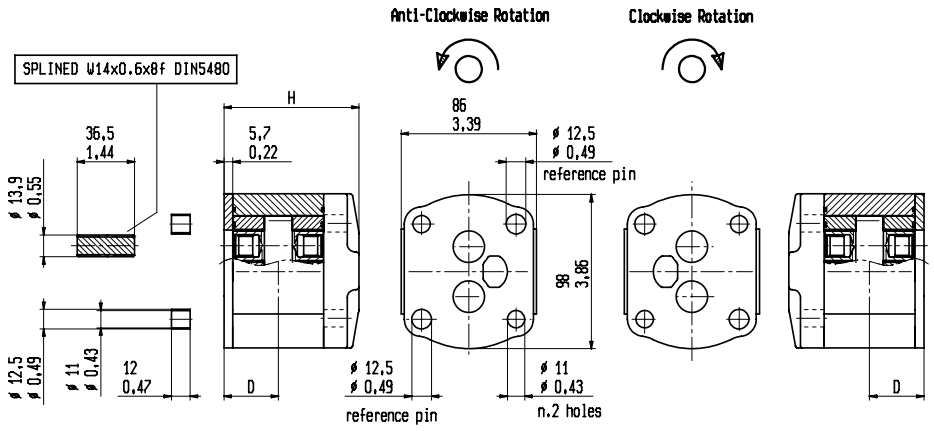
2PGE Pumps G60R & R60R

Cast Iron Gear Pumps
Group 2 - Rear Pump - Tandem Plate Included

Displacement	Pressure
From 6.5 to 26.60 cc/rev	Up to 300 Bar

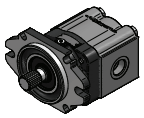
Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PGE6DG60R	6.50	3/4"BSPP	1/2"BSPP	4000	270	300	320	$ 500.00
2PGE8DG60R	8.20			3500	270	300	320	$ 500.00
2PGE11DG60R	11.50			3500	270	300	320	$ 530.00
2PGE14DG60R	13.80			3500	270	300	320	$ 530.00
2PGE16DG60R	16.60			3000	270	300	320	$ 530.00
2PGE19DG60R	19.40			3000	270	300	320	$ 560.00
2PGE22DG60R	22.90	1"BSPP		2750	250	280	300	$ 580.00
2PGE26DG60R	26.60			2500	230	260	280	$ 580.00

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
2PGE6DR60R	6.50	1-1/16" UNO	7/8" UNO	4000	270	300	320	$ 500.00
2PGE8DR60R	8.20			3500	270	300	320	$ 500.00
2PGE11DR60R	11.50			3500	270	300	320	$ 530.00
2PGE14DR60R	13.80			3500	270	300	320	$ 530.00
2PGE16DR60R	16.60			3000	270	300	320	$ 530.00
2PGE19DR60R	19.40			3000	270	300	320	$ 560.00
2PGE22DR60R	22.90	1-5/16" UNO		2750	250	280	300	$ 580.00
2PGE26DR60R	26.60			2500	230	260	280	$ 580.00



Displacement		Dimensions			
cm³/rev	cu.in./rev	D		H	
		mm	in	mm	in
4.5	0.27	29.25	1.15	75.3	2.96
6.2	0.40	29.25	1.15	75.3	2.96
8.3	0.50	32.10	1.26	81.0	3.19
11.3	0.68	35.50	1.39	87.9	3.46
13.8	0.84	37.45	1.47	91.7	3.61
16	1.01	39.45	1.55	95.7	3.77
19	1.15	43.50	1.71	103.8	4.09
22.5	1.37	46.20	1.82	109.2	4.30
26	1.58	49.10	1.93	115.0	4.53

P1 = Continuous Operating Pressure
P2 = Intermittent Operating Pressure
P3 = Peak Pressure



P20/21 Series Bearing

SAE A 2 Bolt Cast Iron with OB Bearing Gear Pump CW

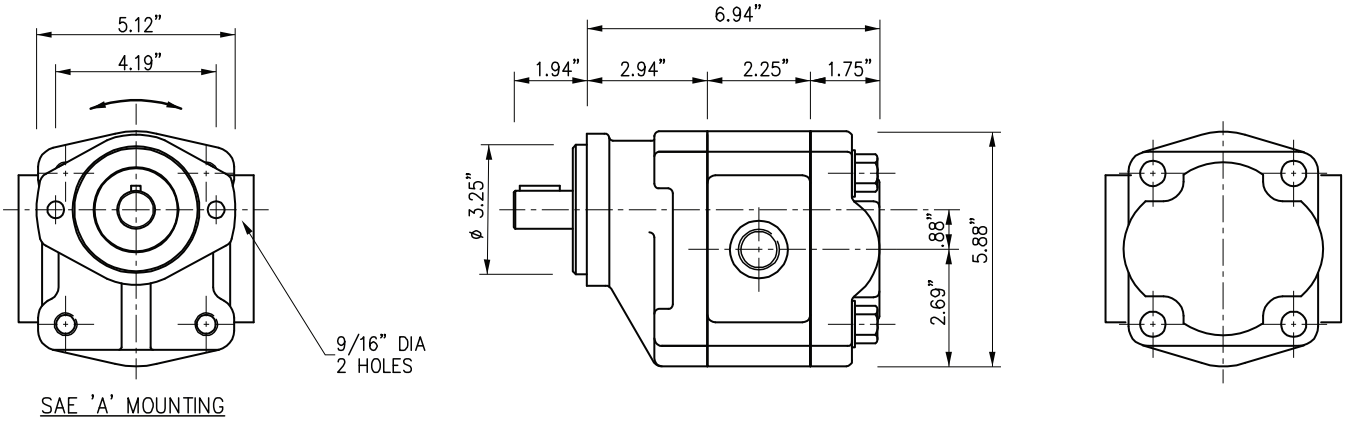
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P21A494-08	1/2”	05	16	0.985	170	13	$ 1050.00
P21A494-07	3/4”	07	24	1.47	170	14	$ 1050.00
P21A494-10	1”	10	32	1.97	165	14.5	$ 1050.00
P21A494-12	1-1/4”	12	40	2.46	165	15	$ 1050.00
P21A494-15	1-1/2”	15	48	2.95	165	15.5	$ 1050.00
P21A494-17	1-3/4”	17	56	3.44	165	16	$ 1050.00
P21A494-20	2”	20	64	3.94	150	16.5	$ 1050.00

SAE B 2 Bolt Cast Iron with OB Bearing Gear Pump CW

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P21A497-05	1/2”	05	16	0.985	170	13	$ 1050.00
P21A497-07	3/4”	07	24	1.47	170	14	$ 1050.00
P21A497-10	1”	10	32	1.97	165	14.5	$ 1050.00
P21A497-12	1-1/4”	12	40	2.46	165	15	$ 1050.00
P21A497-15	1-1/2”	15	48	2.95	165	15.5	$ 1050.00
P21A497-17	1-3/4”	17	56	3.44	165	16	$ 1050.00
P21A497-20	2”	20	64	3.94	150	16.5	$ 1050.00
P20/21B Multiple Units - Add the prices for two or or more selected pumps from single.							

P20/21 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00



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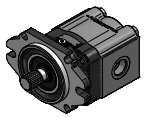


P30/31 Series Bearing

SAE A 2 Bolt Cast Iron with OB Bearing Gear Pump CW

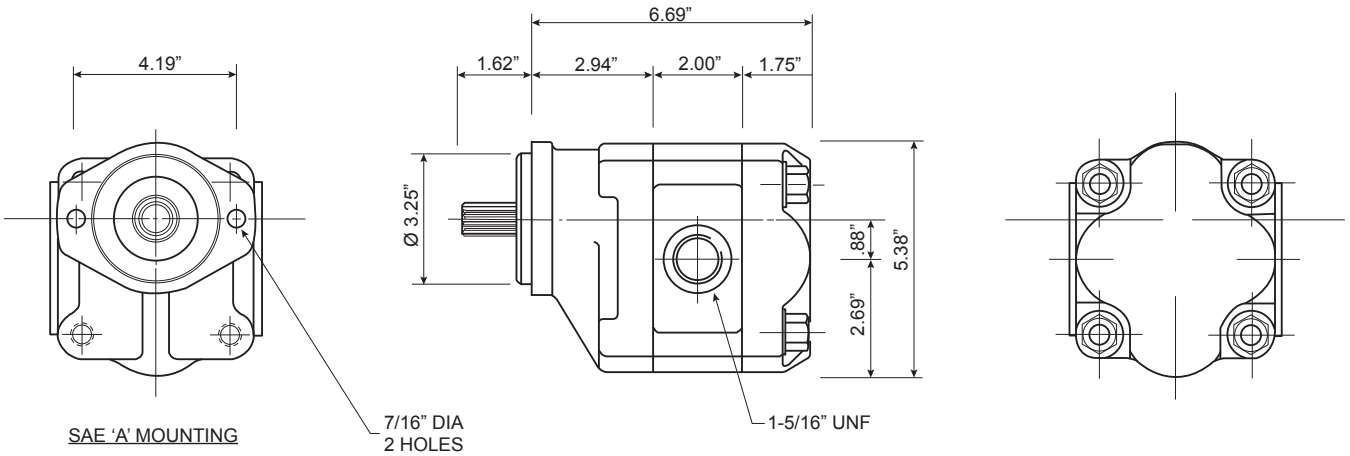
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P31A494-05	1/2”	05	16	0.985	200	13	$ 1160.00
P31A494-07	3/4”	07	24	1.47	200	14	$ 1160.00
P31A494-10	1”	10	32	1.97	200	14.5	$ 1160.00
P31A494-12	1-1/4”	12	40	2.46	200	15	$ 1160.00
P31A494-15	1-1/2”	15	48	2.95	200	15.5	$ 1160.00
P31A494-17	1-3/4”	17	56	3.44	180	16	$ 1160.00
P31A494-20	2”	20	64	3.94	180	16.5	$ 1160.00
P31A494-22	2-1/4”	22	81	4.89	180	17.5	$ 1220.00

SAE B 2 Bolt Cast Iron with OB Bearing Gear Pump CW

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P31A497-05	1/2”	05	16	0.985	200	13	$ 1160.00
P31A497-07	3/4”	07	24	1.47	200	14	$ 1160.00
P31A497-10	1”	10	32	1.97	200	14.5	$ 1160.00
P31A497-12	1-1/4”	12	40	2.46	200	15	$ 1160.00
P31A497-15	1-1/2”	15	48	2.95	200	15.5	$ 1160.00
P31A497-17	1-3/4”	17	56	3.44	180	16	$ 1160.00
P31A497-20	2”	20	64	3.94	180	16.5	$ 1160.00
P31A497-22	2-1/4”	22	81	4.89	180	17.5	$ 1220.00
P30/31B Multiple Units - Add the prices for two or or more selected pumps from single.							

P30/31 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00



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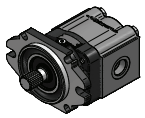


P50/51 Series Bearing

SAE B 2 Bolt Cast Iron with OB Bearing Gear Pump CW

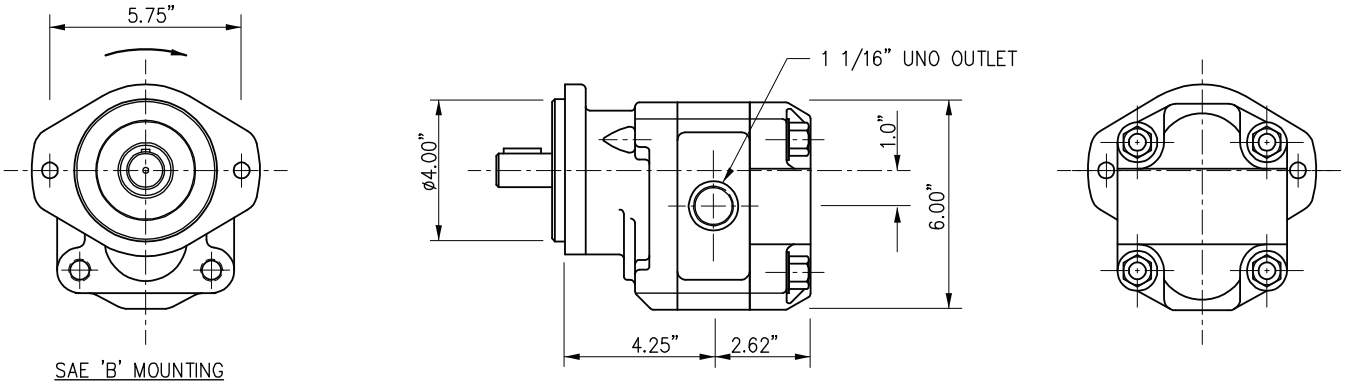
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P51A497-05	1/2”	05	21	1.28	205	17	$ 1370.00
P51A497-07	3/4”	07	31	1.93	205	18	$ 1370.00
P51A497-10	1”	10	42	2.57	205	19	$ 1370.00
P51A497-12	1-1/4”	12	52	3.21	205	20	$ 1370.00
P51A497-15	1-1/2”	15	62	3.85	205	21	$ 1370.00
P51A497-17	1-3/4”	17	73	4.49	205	22	$ 1370.00
P51A497-20	2”	20	83.5	5.14	170	23	$ 1370.00
P51A497-22	2-1/4”	22	94	5.78	170	24	$ 1370.00
P51A497-25	2-1/2”	25	104	6.43	170	25	$ 1430.00

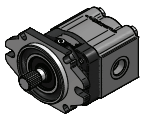
SAE C 2 Bolt Cast Iron with OB Bearing Gear Pump CW

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P51A498-05	1/2”	05	21	1.28	205	17	$ 1370.00
P51A498-07	3/4”	07	31	1.93	205	18	$ 1370.00
P51A498-10	1”	10	42	2.57	205	19	$ 1370.00
P51A498-12	1-1/4”	12	52	3.21	205	20	$ 1370.00
P51A498-15	1-1/2”	15	62	3.85	205	21	$ 1370.00
P51A498-17	1-3/4”	17	73	4.49	205	22	$ 1370.00
P51A498-20	2”	20	83.5	5.14	170	23	$ 1370.00
P51A498-22	2-1/4”	22	94	5.78	170	24	$ 1370.00
P51A498-25	2-1/2”	25	104	6.43	170	25	$ 1430.00
P50/51B Multiple Units - Add the prices for two or or more selected pumps from single.							

P50/51 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00





P75/76 Series Bearing

SAE C 4 Bolt Cast Iron with OB Bearing Gear Pump CW

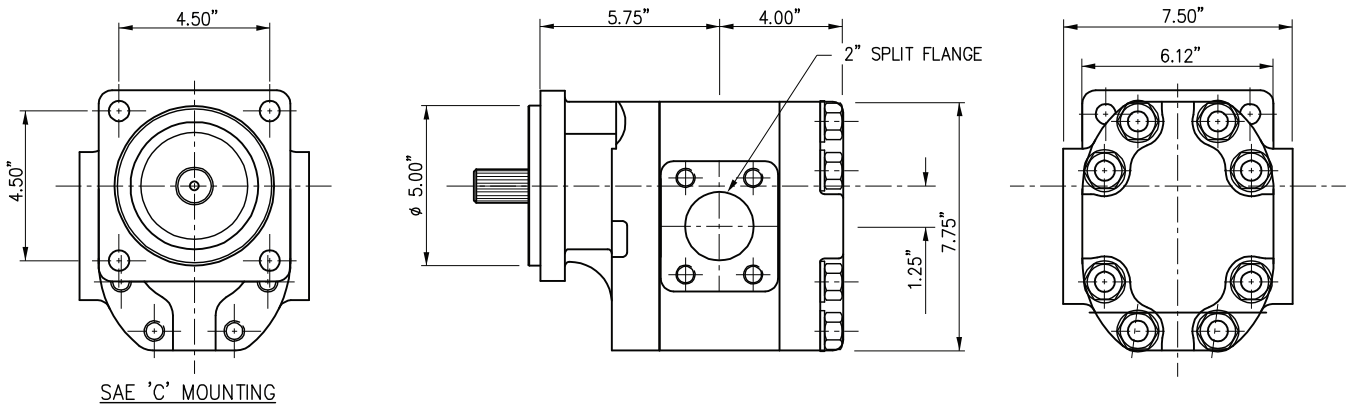
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P76A478-07	3/4”	07	50	3.03	172	24	$ 2300.00
P76A478-10	1”	10	67	4.04	172	26	$ 2300.00
P76A478-12	1-1/4”	12	84	5.05	172	27	$ 2300.00
P76A478-15	1-1/2”	15	100	6.06	172	29	$ 2300.00
P76A478-17	1-3/4”	17	117	7.07	172	30	$ 2300.00
P76A478-20	2”	20	134	8.08	172	31	$ 2400.00
P76A478-22	2-1/4”	22	151	9.09	153	32	$ 2400.00
P76A478-25	2-1/2”	25	168	10.09	153	33	$ 2400.00
P76A478-27	2-3/4”	27	184	11.09	135	34	$ 2400.00
P76A478-30	3”	30	200	12.09	135	35	$ 2400.00

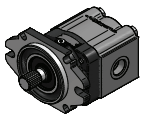
SAE C 2 Bolt Cast Iron with OB Bearing Gear Pump CW

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P76A498-07	3/4”	07	50	3.03	172	24	$ 2300.00
P76A498-10	1”	10	67	4.04	172	26	$ 2300.00
P76A498-12	1-1/4”	12	84	5.05	172	27	$ 2300.00
P76A498-15	1-1/2”	15	100	6.06	172	29	$ 2300.00
P76A498-17	1-3/4”	17	117	7.07	172	30	$ 2300.00
P76A498-20	2”	20	134	8.08	172	31	$ 2400.00
P76A498-22	2-1/4”	22	151	9.09	153	32	$ 2400.00
P76A498-25	2-1/2”	25	168	10.09	153	33	$ 2400.00
P76A498-27	2-3/4”	27	184	11.09	135	34	$ 2400.00
P76A498-30	3”	30	200	12.09	135	35	$ 2400.00
P75/76B Multiple Units - Add the prices for two or or more selected pumps from single.							

P75/76 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 200.00





P315 Bush Gear Pump

SAE A 2 Bolt Cast Iron Gear Pump CW

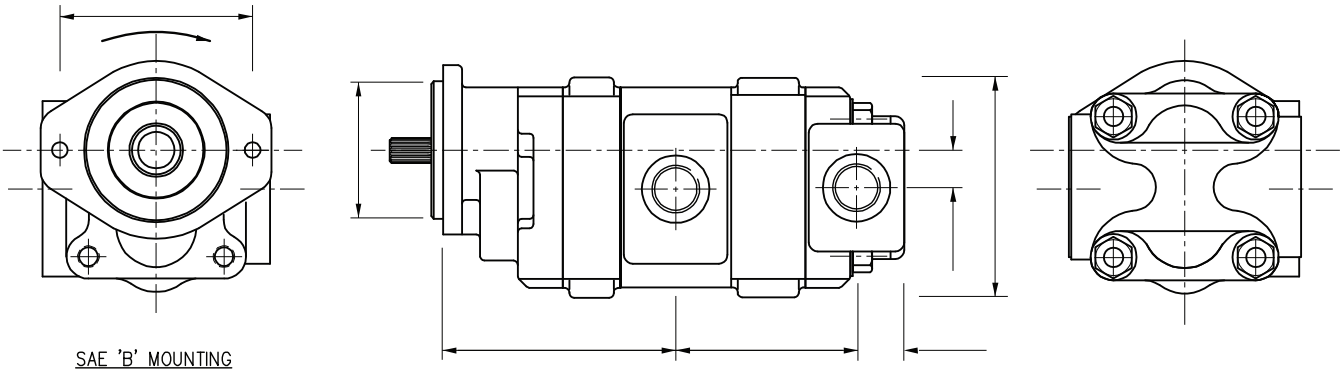
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P315A193-05	1/2”	05	10	0.62	240	7	$ 1050.00
P315A193-07	3/4”	07	15	0.93	240	8	$ 1050.00
P315A193-10	1”	10	20	1.24	240	8	$ 1050.00
P315A193-12	1-1/4”	12	25	1.55	240	9	$ 1050.00
P315A193-15	1-1/2”	15	30	1.86	240	9	$ 1050.00
P315A193-17	1-3/4”	17	35	2.17	220	10	$ 1050.00
P315A193-20	2”	20	40	2.48	200	11	$ 1050.00

SAE B 2 Bolt Cast Iron Gear Pump CW

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P315A196-05	1/2”	05	10	0.62	240	7	$ 1050.00
P315A196-07	3/4”	07	15	0.93	240	8	$ 1050.00
P315A196-10	1”	10	20	1.24	240	8	$ 1050.00
P315A196-12	1-1/4”	12	25	1.55	240	9	$ 1050.00
P315A196-15	1-1/2”	15	30	1.86	240	9	$ 1050.00
P315A196-17	1-3/4”	17	35	2.17	220	10	$ 1050.00
P315A196-20	2”	20	40	2.48	200	11	$ 1050.00
P315B Multiple Units - Add the prices for two or or more selected pumps from single.							

P315 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00



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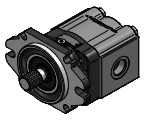


P330 Series Bushing

SAE B 4 Bolt Cast Iron with OB Bearing Gear Pump CW

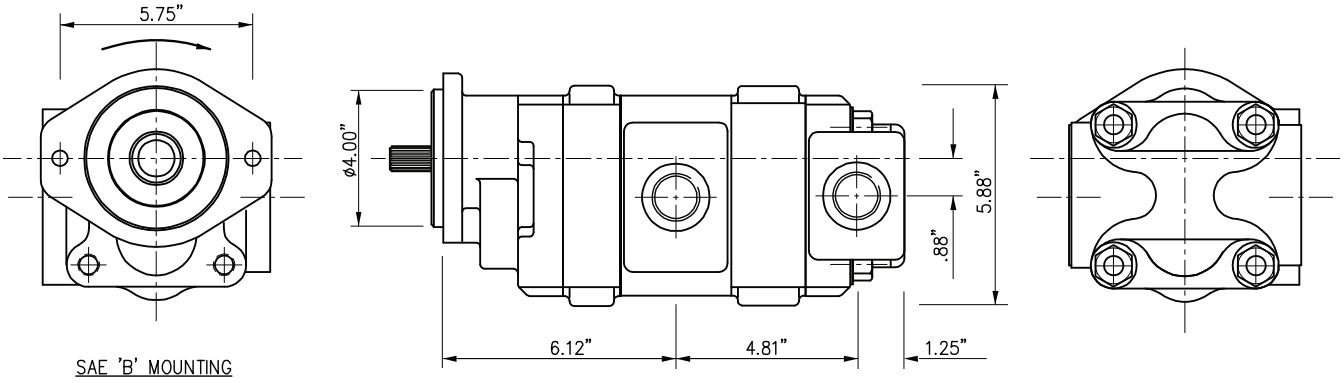
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P330A442-05	1/2”	05	16	0.985	240	16	$ 1480.00
P330A442-07	3/4”	07	24	1.47	240	17	$ 1480.00
P330A442-10	1”	10	32.3	1.97	240	17	$ 1480.00
P330A442-12	1-1/4”	12	40	2.46	240	18	$ 1480.00
P330A442-15	1-1/2”	15	48.3	2.95	240	19	$ 1480.00
P330A442-17	1-3/4”	17	56.3	3.44	220	20	$ 1480.00
P330A442-20	2”	20	64.4	3.94	200	21	$ 1480.00

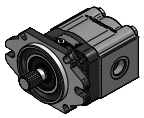
SAE B 2 Bolt Cast Iron with OB Bearing Gear Pump CW

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P330A497-05	1/2”	05	16	0.985	240	16	$ 1480.00
P330A497-07	3/4”	07	24	1.47	240	17	$ 1480.00
P330A497-10	1”	10	32.3	1.97	240	17	$ 1480.00
P330A497-12	1-1/4”	12	40	2.46	240	18	$ 1480.00
P330A497-15	1-1/2”	15	48.3	2.95	240	19	$ 1480.00
P330A497-17	1-3/4”	17	56.3	3.44	220	20	$ 1480.00
P330A497-20	2”	20	64.4	3.94	200	21	$ 1480.00
P330B Multiple Units - Add the prices for two or or more selected pumps from single.							

P330 Accessories

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00





P350 Series Bushing

SAE B 4 Bolt Cast Iron with OB Bearing Gear Pump CW

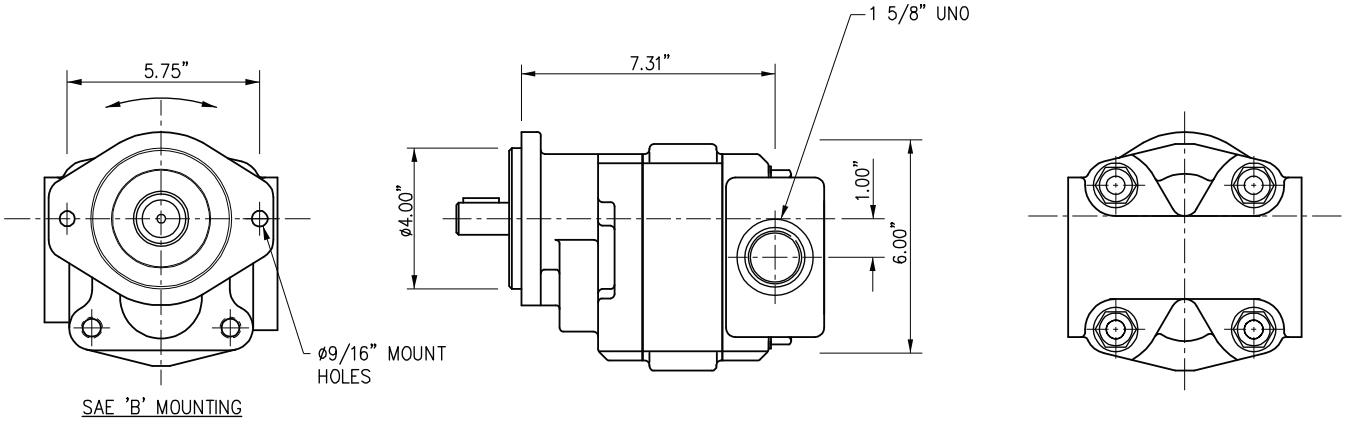
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P350A442-05	1/2”	05	20.8	1.28	240	19	$ 1700.00
P350A442-07	3/4”	07	31.2	1.93	240	20	$ 1700.00
P350A442-10	1”	10	41.6	2.57	240	21	$ 1700.00
P350A442-12	1-1/4”	12	52	3.21	240	22	$ 1700.00
P350A442-15	1-1/2”	15	62.5	3.85	240	23	$ 1700.00
P350A442-17	1-3/4”	17	73	4.49	220	23	$ 1700.00
P350A442-20	2”	20	83.4	5.14	200	24	$ 1700.00
P350A442-22	2-1/4”	22	94	5.78	190	25	$ 1700.00
P350A442-25	2-1/2”	25	103	6.43	170	25	$ 1700.00

SAE B 2 Bolt Cast Iron with OB Bearing Gear Pump CW

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
P350A478-05	1/2”	05	20.8	1.28	240	19	$ 1700.00
P350A478-07	3/4”	07	31.2	1.93	240	20	$ 1700.00
P350A478-10	1”	10	41.6	2.57	240	21	$ 1700.00
P350A478-12	1-1/4”	12	52	3.21	240	22	$ 1700.00
P350A478-15	1-1/2”	15	62.5	3.85	240	23	$ 1700.00
P350A478-17	1-3/4”	17	73	4.49	220	23	$ 1700.00
P350A478-20	2”	20	83.4	5.14	200	24	$ 1700.00
P350A478-22	2-1/4”	22	94	5.78	190	25	$ 1700.00
P350A478-25	2-1/2”	25	103	6.43	170	25	$ 1700.00
P350B Multiple Units - Add the prices for two or or more selected pumps from single.							

P350 Accessories

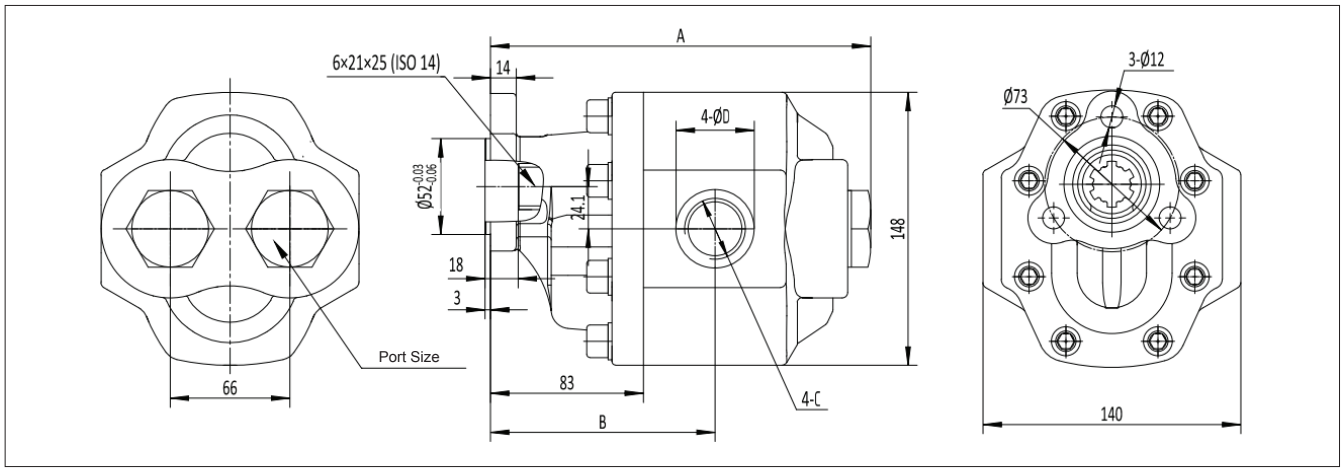
Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 200.00



KBLH UNI 3 Bolt Gear Pumps

UNI 3 Bolt Mount - Cast Iron Gear Pumps

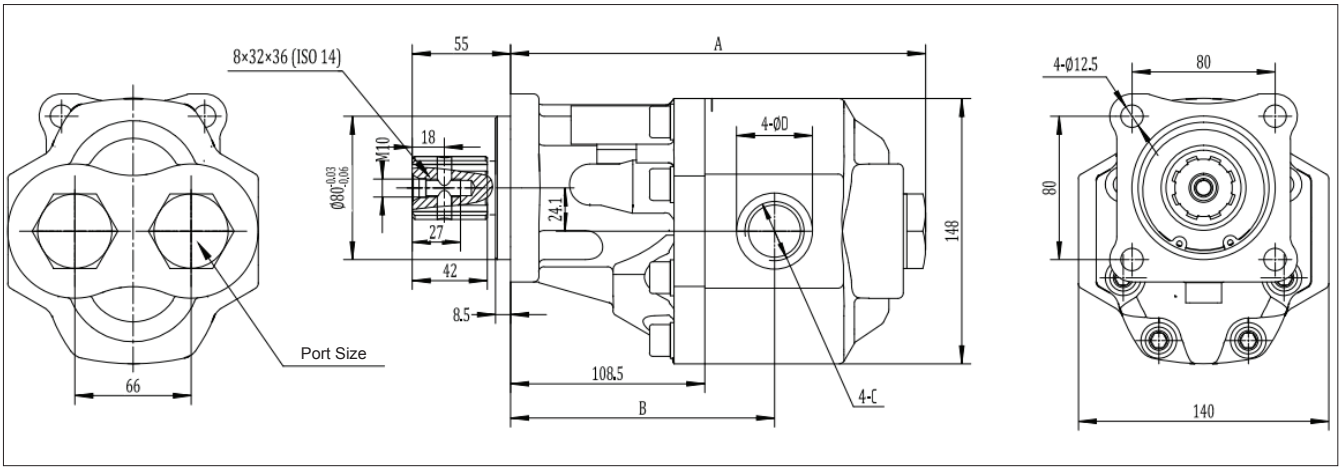
Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
KBLHR40F3	40	G 3/4”	G 3/4”	210	143	2500	250	280	315	$ 600.00
KBLHR50F3	50	G 1”	G 1”	214	143	2500	250	280	315	$ 600.00
KBLHR63F3	63	G 1”	G 1”	222	143	2500	230	250	280	$ 600.00
KBLHR80F3	80	G 1”	G 1”	229	148	2500	230	250	280	$ 600.00



KBLH ISO 4 Bolt Gear Pumps

ISO 4 Bolt Mount - Cast Iron Gear Pumps

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
KBLHR40F1	40	G 3/4”	G 3/4”	210	143	2500	250	280	315	$ 600.00
KBLHR50F1	50	G 1”	G 1”	214	143	2500	250	280	315	$ 600.00
KBLHR63F1	63	G 1”	G 1”	222	143	2500	230	250	280	$ 600.00
KBLHR80F1	80	G 1”	G 1”	229	148	2500	230	250	280	$ 600.00

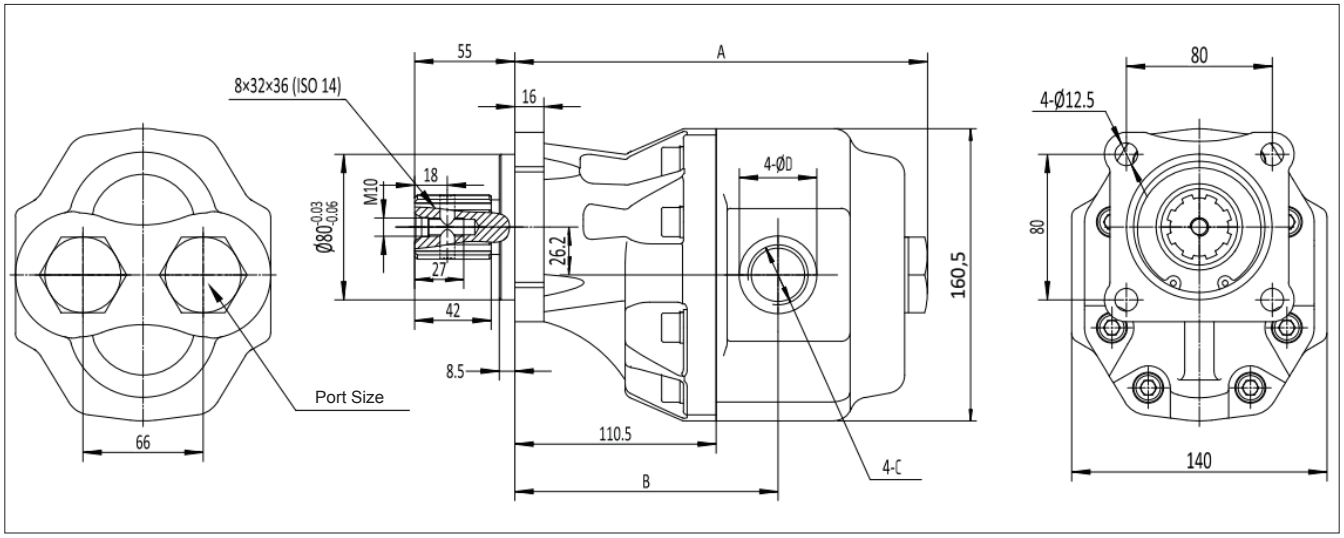


KBMH ISO 80 4 Bolt Gear Pumps

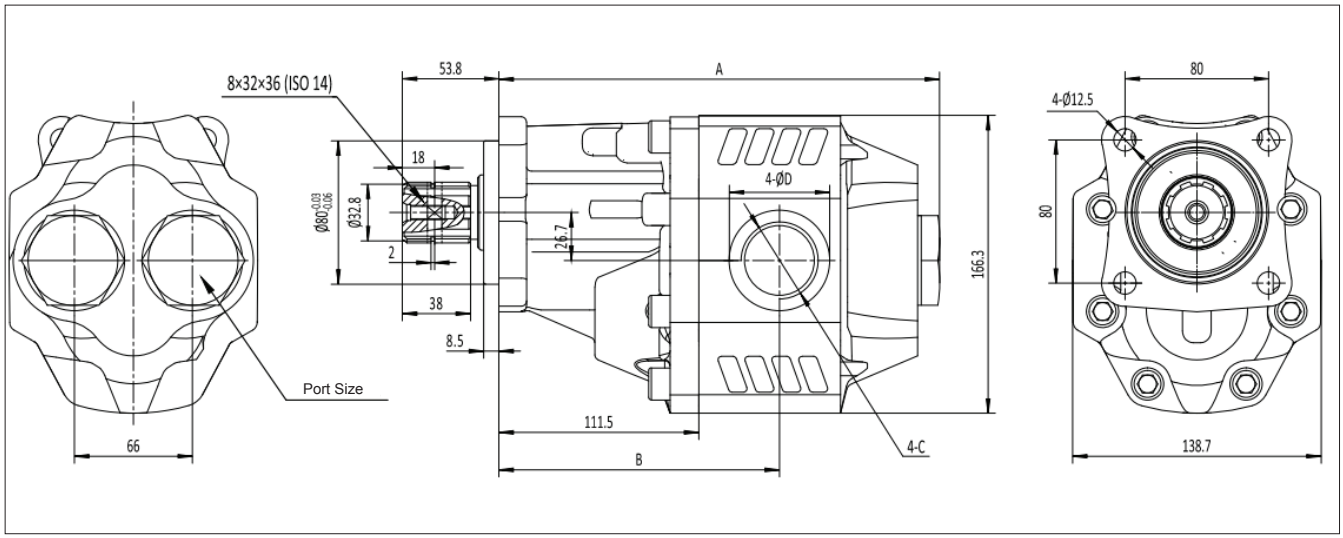
ISO 80 - 4 Bolt Mount - Cast Iron Gear Pumps

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
KBMHR63	63	G 1”	G 1”	211	138	2500	250	280	315	$ 600.00
KBMHR80	80	G 1”	G 1”	223	144	2500	230	250	280	$ 600.00
KBGHR100	100	G 1-1/4”	G 1-1/4”	242	156	2500	280	315	350	$ 800.00
KBGHR110	110	G 1-1/2”	G 1-1/2”	247	161	2500	250	280	315	$ 800.00
KBGHR130	130	G 1-1/2”	G 1-1/2”	257	168	2000	230	250	280	$ 800.00

KBMH Dimensions



KBGH Dimensions

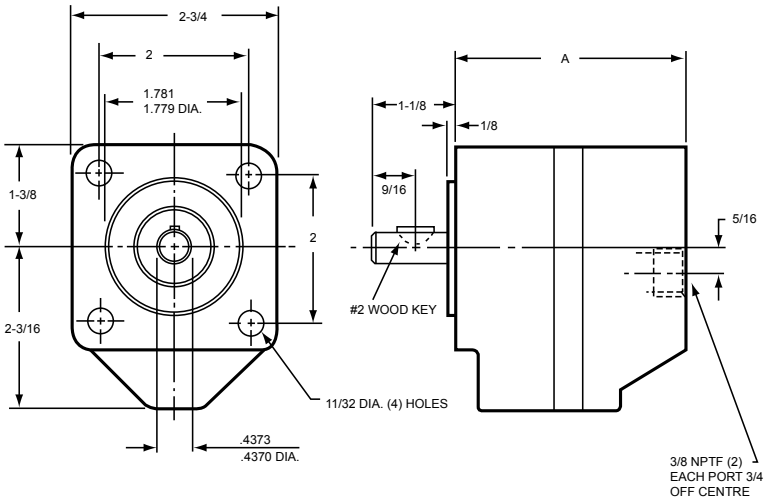


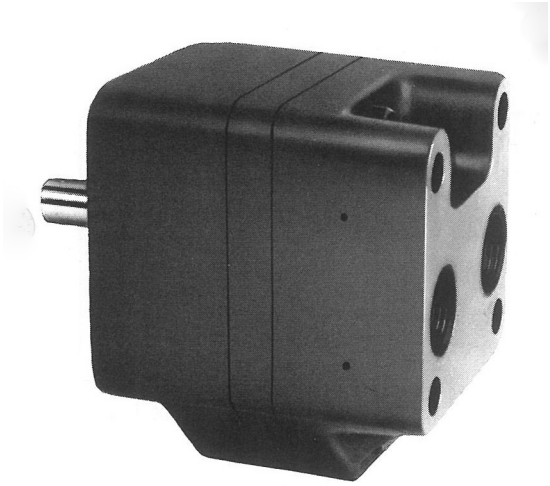
DM Gear Motors

Delta Cast Iron Gear Motors

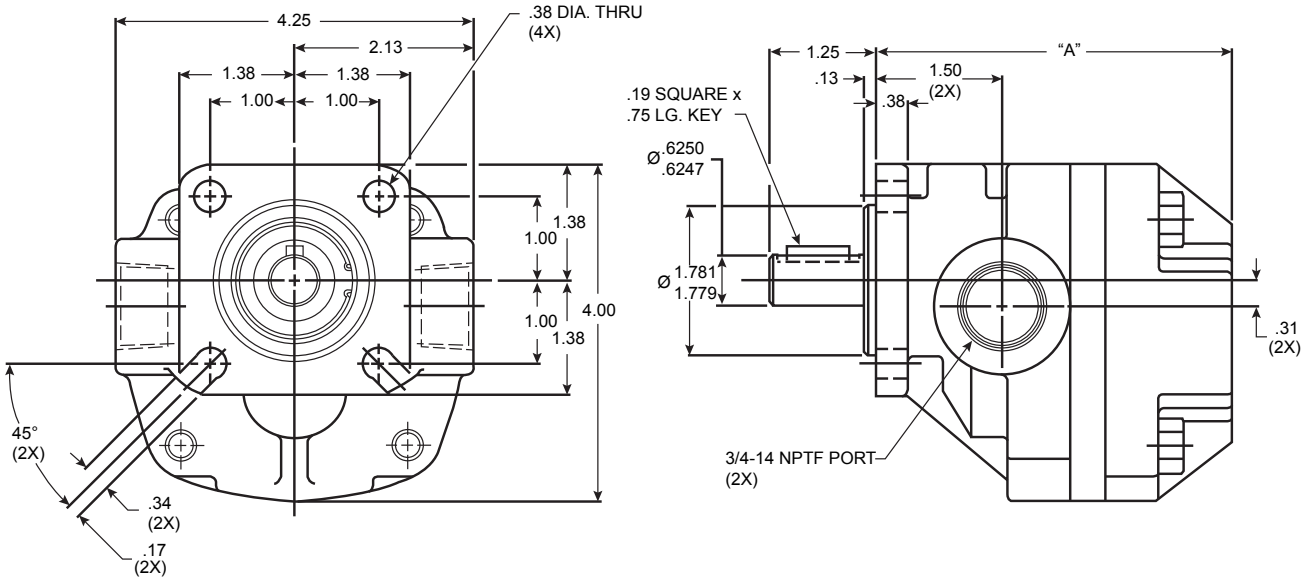
Stock No.	Displacement cu. in/rev	Max. Speed RPM	Torque In/Lbs per 100 psi Theor.	Max. Pressure		Port Size		Dimension A	List Price
				BAR	PSI	Inlet	Outlet		
DM1	0.065	4000	1.05	105	1500	3/8" NPT	3/8" NPT	2.82"	$ 466.00
DM2	0.108	4000	1.75	105	1500			2.91"	$ 473.00
DM4	0.187	4000	3.00	105	1500			3.08"	$ 473.00
DM6	0.316	3000	5.10	65	950			3.36"	$ 473.00
DM8	0.468	3000	7.50	45	650			3.68"	$ 508.00
DM23	0.068	3000	11.1	82	1200	3/4" NPT	3/4" NPT	4.53"	$ 689.00
DM25	0.083	3000	15.6	58	850			4.81"	$ 689.00

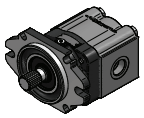
DM1 - DM8





DM21 - DM27 Hydraulic Motor, Bi-Directional





M20/21 Series Bushing

SAE A 2 Bolt Cast Iron with OB Bearing Gear Motor

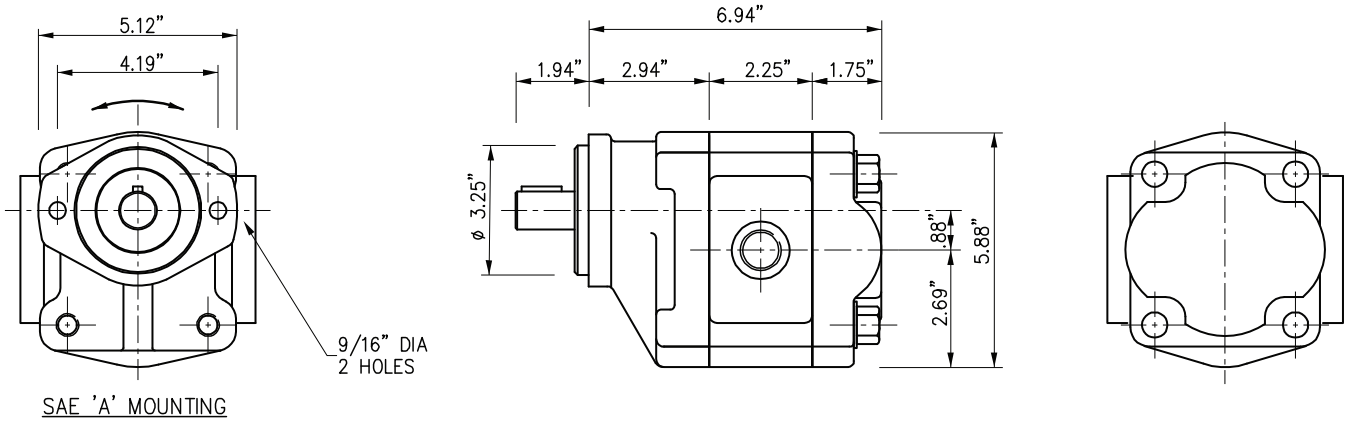
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M21A894-08	1/2”	05	16	0.985	170	13	$ 1050.00
M21A894-07	3/4”	07	24	1.47	170	14	$ 1050.00
M21A894-10	1”	10	32	1.97	165	14.5	$ 1050.00
M21A894-12	1-1/4”	12	40	2.46	165	15	$ 1050.00
M21A894-15	1-1/2”	15	48	2.95	165	15.5	$ 1050.00
M21A894-17	1-3/4”	17	56	3.44	165	16	$ 1050.00
M21A894-20	2”	20	64	3.94	150	16.5	$ 1050.00

SAE B 2 Bolt Cast Iron with OB Bearing Gear Motor

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M21A897-05	1/2”	05	16	0.985	170	13	$ 1050.00
M21A897-07	3/4”	07	24	1.47	170	14	$ 1050.00
M21A897-10	1”	10	32	1.97	165	14.5	$ 1050.00
M21A897-12	1-1/4”	12	40	2.46	165	15	$ 1050.00
M21A897-15	1-1/2”	15	48	2.95	165	15.5	$ 1050.00
M21A897-17	1-3/4”	17	56	3.44	165	16	$ 1050.00
M21A897-20	2”	20	64	3.94	150	16.5	$ 1050.00

M20/21 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00



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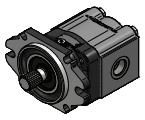


M30/31 Series Bushing

SAE A 2 Bolt Cast Iron with OB Bearing Gear Motor

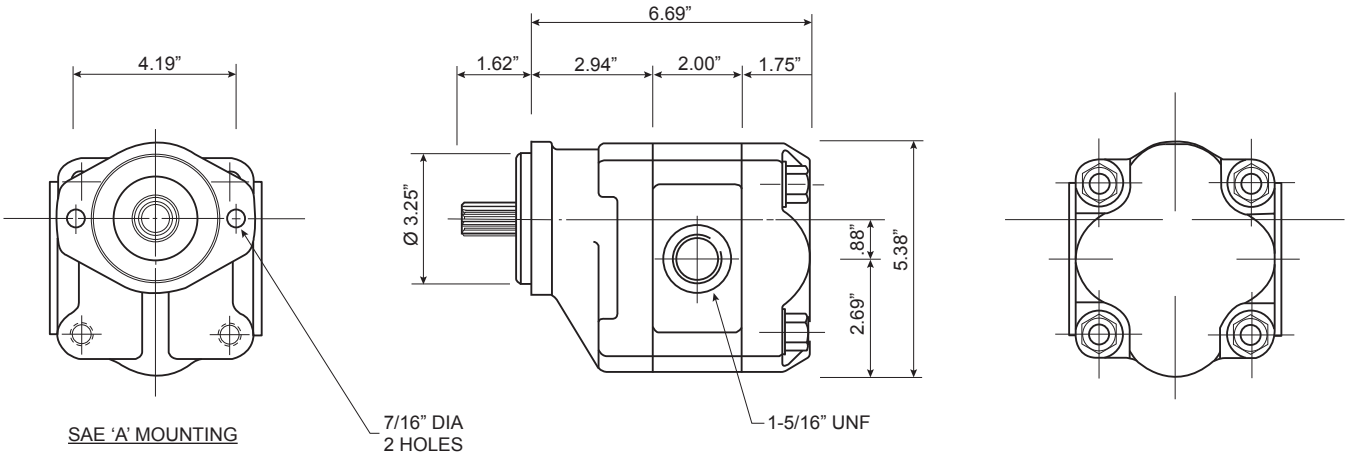
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M31A894-05	1/2”	05	16	0.985	200	13	$ 1160.00
M31A894-07	3/4”	07	24	1.47	200	14	$ 1160.00
M31A894-10	1”	10	32	1.97	200	14.5	$ 1160.00
M31A894-12	1-1/4”	12	40	2.46	200	15	$ 1160.00
M31A894-15	1-1/2”	15	48	2.95	200	15.5	$ 1160.00
M31A894-17	1-3/4”	17	56	3.44	180	16	$ 1160.00
M31A894-20	2”	20	64	3.94	180	16.5	$ 1160.00
M31A894-22	2-1/4”	22	81	4.89	180	17.5	$ 1220.00

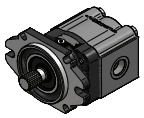
SAE B 2 Bolt Cast Iron with OB Bearing Gear Motor

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M31A897-05	1/2”	05	16	0.985	200	13	$ 1160.00
M31A897-07	3/4”	07	24	1.47	200	14	$ 1160.00
M31A897-10	1”	10	32	1.97	200	14.5	$ 1160.00
M31A897-12	1-1/4”	12	40	2.46	200	15	$ 1160.00
M31A897-15	1-1/2”	15	48	2.95	200	15.5	$ 1160.00
M31A897-17	1-3/4”	17	56	3.44	180	16	$ 1160.00
M31A897-20	2”	20	64	3.94	180	16.5	$ 1160.00
M31A897-22	2-1/4”	22	81	4.89	180	17.5	$ 1220.00

M30/31 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00





M50/51 Series Bushing

SAE B 2 Bolt Cast Iron with OB Bearing Gear Motor

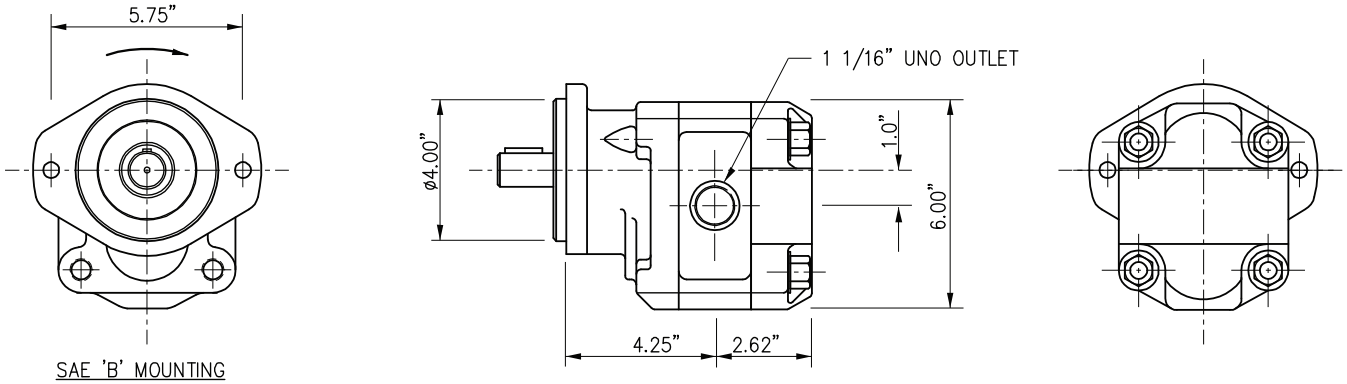
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M51A897-05	1/2”	05	21	1.28	205	17	$ 1370.00
M51A897-07	3/4”	07	31	1.93	205	18	$ 1370.00
M51A897-10	1”	10	42	2.57	205	19	$ 1370.00
M51A897-12	1-1/4”	12	52	3.21	205	20	$ 1370.00
M51A897-15	1-1/2”	15	62	3.85	205	21	$ 1370.00
M51A897-17	1-3/4”	17	73	4.49	205	22	$ 1370.00
M51A897-20	2”	20	83.5	5.14	170	23	$ 1370.00
M51A897-22	2-1/4”	22	94	5.78	170	24	$ 1370.00
M51A897-25	2-1/2”	25	104	6.43	170	25	$ 1430.00

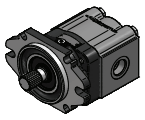
SAE C 2 Bolt Cast Iron with OB Bearing Gear Motor

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M51A898-05	1/2”	05	21	1.28	205	17	$ 1370.00
M51A898-07	3/4”	07	31	1.93	205	18	$ 1370.00
M51A898-10	1”	10	42	2.57	205	19	$ 1370.00
M51A898-12	1-1/4”	12	52	3.21	205	20	$ 1370.00
M51A898-15	1-1/2”	15	62	3.85	205	21	$ 1370.00
M51A898-17	1-3/4”	17	73	4.49	205	22	$ 1370.00
M51A898-20	2”	20	83.5	5.14	170	23	$ 1370.00
M51A898-22	2-1/4”	22	94	5.78	170	24	$ 1370.00
M51A898-25	2-1/2”	25	104	6.43	170	25	$ 1430.00

M50/51 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00





M75/76 Series Bushing

SAE C 4 Bolt Cast Iron with OB Bearing Gear Motor

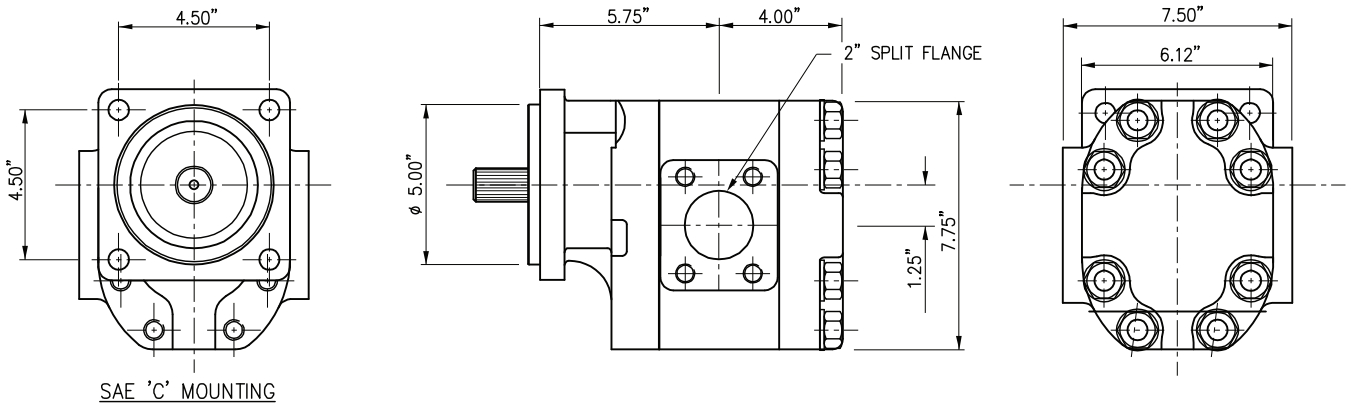
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M76A878-07	3/4”	07	50	3.03	172	24	$ 2300.00
M76A878-10	1”	10	67	4.04	172	26	$ 2300.00
M76A878-12	1-1/4”	12	84	5.05	172	27	$ 2300.00
M76A878-15	1-1/2”	15	100	6.06	172	29	$ 2300.00
M76A878-17	1-3/4”	17	117	7.07	172	30	$ 2300.00
M76A878-20	2”	20	134	8.08	172	31	$ 2400.00
M76A878-22	2-1/4”	22	151	9.09	153	32	$ 2400.00
M76A878-25	2-1/2”	25	168	10.09	153	33	$ 2400.00
M76A878-27	2-3/4”	27	184	11.09	135	34	$ 2400.00
M76A878-30	3”	30	200	12.09	135	35	$ 2400.00

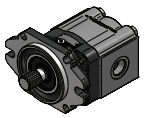
SAE C 2 Bolt Cast Iron with OB Bearing Gear Motor

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M76A898-07	3/4”	07	50	3.03	172	24	$ 2300.00
M76A898-10	1”	10	67	4.04	172	26	$ 2300.00
M76A898-12	1-1/4”	12	84	5.05	172	27	$ 2300.00
M76A898-15	1-1/2”	15	100	6.06	172	29	$ 2300.00
M76A898-17	1-3/4”	17	117	7.07	172	30	$ 2300.00
M76A898-20	2”	20	134	8.08	172	31	$ 2400.00
M76A898-22	2-1/4”	22	151	9.09	153	32	$ 2400.00
M76A898-25	2-1/2”	25	168	10.09	153	33	$ 2400.00
M76A898-27	2-3/4”	27	184	11.09	135	34	$ 2400.00
M76A898-30	3”	30	200	12.09	135	35	$ 2400.00

M75/76 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 200.00





M315 Bush Gear Motor

SAE A 4 Bolt Cast Iron Gear Motor

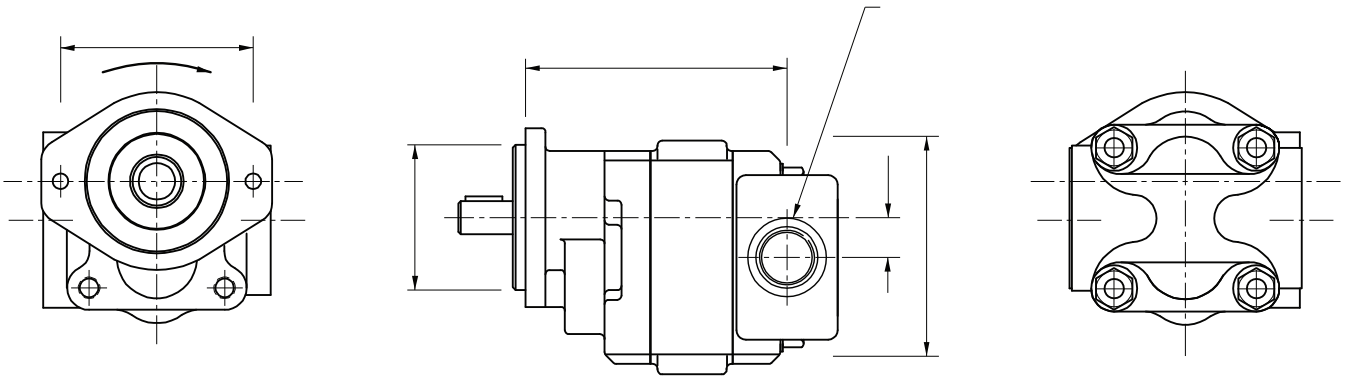
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M315A993-05	1/2”	05	10	0.62	240	7	$ 1050.00
M315A993-07	3/4”	07	15	0.93	240	8	$ 1050.00
M315A993-10	1”	10	20	1.24	240	8	$ 1050.00
M315A993-12	1-1/4”	12	25	1.55	240	9	$ 1050.00
M315A993-15	1-1/2”	15	30	1.86	240	9	$ 1050.00
M315A993-17	1-3/4”	17	35	2.17	220	10	$ 1050.00
M315A993-20	2”	20	40	2.48	200	11	$ 1050.00

SAE B 2 Bolt Cast Iron Gear Motor

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M315A996-05	1/2”	05	10	0.62	240	7	$ 1050.00
M315A996-07	3/4”	07	15	0.93	240	8	$ 1050.00
M315A996-10	1”	10	20	1.24	240	8	$ 1050.00
M315A996-12	1-1/4”	12	25	1.55	240	9	$ 1050.00
M315A996-15	1-1/2”	15	30	1.86	240	9	$ 1050.00
M315A996-17	1-3/4”	17	35	2.17	220	10	$ 1050.00
M315A996-20	2”	20	40	2.48	200	11	$ 1050.00

M315 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00



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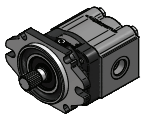


M330 Series Bushing

SAE B 4 Bolt Cast Iron with OB Bearing Gear Motor

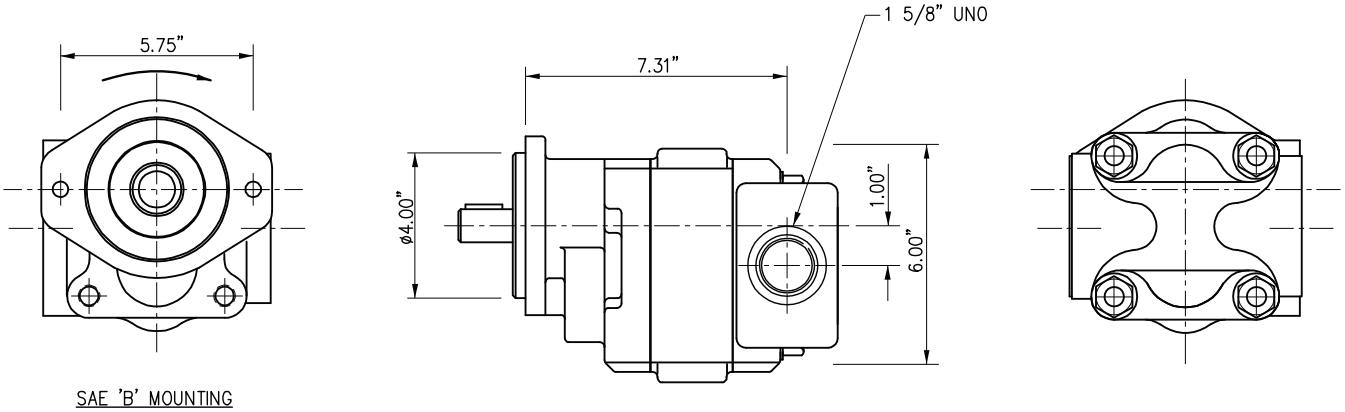
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M330A842-05	1/2”	05	16	0.985	240	16	$ 1480.00
M330A842-07	3/4”	07	24	1.47	240	17	$ 1480.00
M330A842-10	1”	10	32.3	1.97	240	17	$ 1480.00
M330A842-12	1-1/4”	12	40	2.46	240	18	$ 1480.00
M330A842-15	1-1/2”	15	48.3	2.95	240	19	$ 1480.00
M330A842-17	1-3/4”	17	56.3	3.44	220	20	$ 1480.00
M330A842-20	2”	20	64.4	3.94	200	21	$ 1480.00

SAE B 2 Bolt Cast Iron with OB Bearing Gear Motor

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M330A897-05	1/2”	05	16	0.985	240	16	$ 1480.00
M330A897-07	3/4”	07	24	1.47	240	17	$ 1480.00
M330A897-10	1”	10	32.3	1.97	240	17	$ 1480.00
M330A897-12	1-1/4”	12	40	2.46	240	18	$ 1480.00
M330A897-15	1-1/2”	15	48.3	2.95	240	19	$ 1480.00
M330A897-17	1-3/4”	17	56.3	3.44	220	20	$ 1480.00
M330A897-20	2”	20	64.4	3.94	200	21	$ 1480.00

M330 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 100.00



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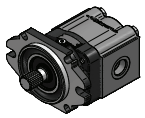


M350 Series Bushing

SAE B 4 Bolt Cast Iron with OB Bearing Gear Motor

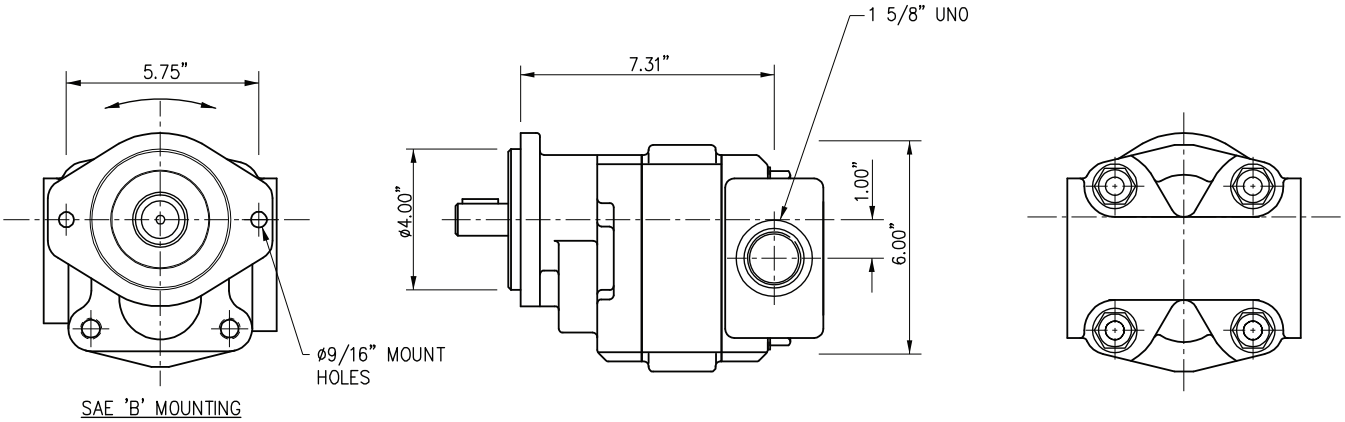
Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M350A842-05	1/2”	05	20.8	1.28	240	19	$ 1700.00
M350A842-07	3/4”	07	31.2	1.93	240	20	$ 1700.00
M350A842-10	1”	10	41.6	2.57	240	21	$ 1700.00
M350A842-12	1-1/4”	12	52	3.21	240	22	$ 1700.00
M350A842-15	1-1/2”	15	62.5	3.85	240	23	$ 1700.00
M350A842-17	1-3/4”	17	73	4.49	220	23	$ 1700.00
M350A842-20	2”	20	83.4	5.14	200	24	$ 1700.00
M350A842-22	2-1/4”	22	94	5.78	190	25	$ 1700.00
M350A842-25	2-1/2”	25	103	6.43	170	25	$ 1700.00

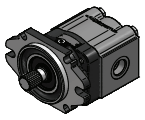
SAE B 2 Bolt Cast Iron with OB Bearing Gear Motor

Stock No.	Gear Width	Code	Displacement		Pressure Bar	Weight KG	List Price
			cc/rev	cu.in/rev			
M350A878-05	1/2”	05	20.8	1.28	240	19	$ 1700.00
M350A878-07	3/4”	07	31.2	1.93	240	20	$ 1700.00
M350A878-10	1”	10	41.6	2.57	240	21	$ 1700.00
M350A878-12	1-1/4”	12	52	3.21	240	22	$ 1700.00
M350A878-15	1-1/2”	15	62.5	3.85	240	23	$ 1700.00
M350A878-17	1-3/4”	17	73	4.49	220	23	$ 1700.00
M350A878-20	2”	20	83.4	5.14	200	24	$ 1700.00
M350A878-22	2-1/4”	22	94	5.78	190	25	$ 1700.00
M350A878-25	2-1/2”	25	103	6.43	170	25	$ 1700.00

M350 Options

Stock No.	Description	List Price
BSPP	BSPP Porting	$ 100.00
SF	Split Flange Porting	$ 200.00





MG330 Gear Motors

SAE 'B' 2 - 4 Bolt Mount 7/8" Dia Straight Keyed Shaft - Counter Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	MG33023SR87S3	23.40	1.43	1-5/16" UNO	1-1/16" UNO	140.8	88	220	3200	$ 930.00
	MG33028SR87S3	28.60	1.74			144.8	91	240	3500	$ 938.00
	MG33034SR87S3	34.40	2.10			149.3	95.5	240	3500	$ 949.00
	MG33040SR87S3	40.30	2.46			153.8	100	220	3200	$ 965.00

SAE 'B' 2 - 4 Bolt Mount 7/8" Dia Straight Keyed Shaft - Reversible - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	MG33023RR87S3	23.40	1.43	1-5/16" UNO	1-5/16" UNO	140.8	88	220	3200	$ 1017.00
	MG33028RR87S3	28.60	1.74			144.8	91	240	3500	$ 1026.00
	MG33034RR87S3	34.40	2.10			149.3	95.5	240	3500	$ 1037.00
	MG33040RR87S3	40.30	2.46			153.8	100	220	3200	$ 1052.00

SAE 'B' 2 - 4 Bolt Mount 7/8" 13 T Spline Shaft - Counter Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	MG33023SR55S3	23.40	1.43	1-5/16" UNO	1-1/16" UNO	140.8	88	220	3200	$ 930.00
	MG33028SR55S3	28.60	1.74			144.8	91	240	3500	$ 938.00
	MG33034SR55S3	34.40	2.10			149.3	95.5	240	3500	$ 949.00
	MG33040SR55S3	40.30	2.46			153.8	100	220	3200	$ 965.00

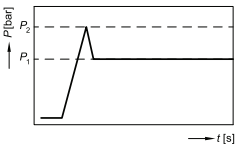
SAE 'B' 2 - 4 Bolt Mount 7/8" 13 T Spline Shaft - Reversible - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
	MG33023RR55S3	23.40	1.43	1-5/16" UNO	1-5/16" UNO	140.8	88	220	3200	$ 1017.00
	MG33028RR55S3	28.60	1.74			144.8	91	240	3500	$ 1026.00
	MG33034RR55S3	34.40	2.10			149.3	95.5	240	3500	$ 1037.00
	MG33040RR55S3	40.30	2.46			153.8	100	220	3200	$ 1052.00

Options

Model Code	Description	Add To List Price
1	1-5/16" UNO Rear Ports	$ 110.00

DEFINITION OF PRESSURES



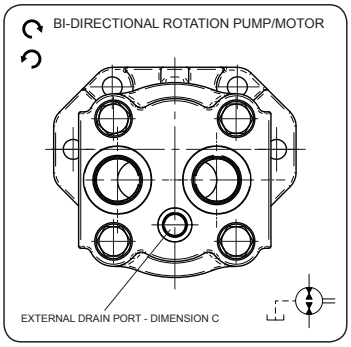
P_1 max. continuous pressure
P_2 starting pressure (depending on the application, this must be taken into consideration when setting the pressure of the hydraulic system's pressure-relief valve).

WORKING CONDITIONS

MG330

Type		23	28	34	40	47	55	64	72	80
max. continuous pressure P_1	bar (psi)	220 (3200)	240 (3500)	240 (3500)	220 (3200)	240 (3500)	220 (3200)	200 (2900)		
max. starting pressure P_2		300 (4350)			280 (4050)			260 (3800)		
min. rotational speed	min^{-1}	600			550			500		
max. rotational speed P_1		3000			2700			2500		
Motor outlet pressure P_{out} Leakage-oil line pressure P_{drain}	bar (psi)	P_{in} $P_{out} \leqq 5$ bar (43 psi)			P_{in} $P_{drain} < 5$ bar (43 psi) $P_{out} \leqq 120$ bar (1740 psi)					

RELEASE WITH REAR PORTS



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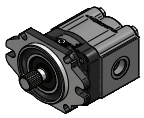


MG330 Gear Motors

SAE 'B' 2 - 4 Bolt Mount 1" Dia Straight Keyed Shaft - Counter Clockwise - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
615111896	MG33023SR88S3	23.40	1.43	1-5/16" UNO	1-5/16" UNO	140.8	88	220	3200	$ 930.00
615111906	MG33028SR88S3	28.60	1.74			144.8	91	240	3500	$ 938.00
615111916	MG33034SR88S3	34.40	2.10			149.3	95.5	240	3500	$ 949.00
615111926	MG33040SR88S3	40.30	2.46			153.8	100	220	3200	$ 965.00
615111936	MG33047SR88S3	47.40	2.89			176.3	114	240	3500	$ 982.00
615111946	MG33055SR88S3	55.20	3.37			182.3	120	220	3200	$ 1026.00
615111956	MG33064SR88S3	64.30	3.92	1-5/8" UNO	1-5/8" UNO	189.3	122	200	2900	$ 1069.00
615111966	MG33072SR88S3	73.40	4.48			196.3	125	200	2900	$ 1113.00
615111976	MG33080SR88S3	80.60	4.91			202.3	129	200	2900	$ 1157.00

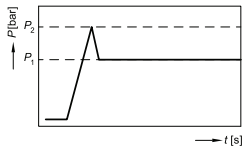
SAE 'B' 2 - 4 Bolt Mount 1" Dia Straight Keyed Shaft - Reversible - Cast Iron

Stock No.	Model Code	Displacement		Ports		Dimension		Max. Cont. Pressure		List Price
		cc/rev	cu.in/rev	Inlet	Outlet	A mm	B mm	BAR	PSI	
615111898	MG33023RR88S3	23.40	1.43	1-5/16" UNO	1-5/16" UNO	140.8	88	220	3200	$ 1017.00
615111908	MG33028RR88S3	28.60	1.74			144.8	91	240	3500	$ 1026.00
615111918	MG33034RR88S3	34.40	2.10			149.3	95.5	240	3500	$ 1037.00
615111928	MG33040RR88S3	40.30	2.46			153.8	100	220	3200	$ 1052.00
615111938	MG33047RR88S3	47.40	2.89	1-5/8" UNO	1-5/8" UNO	176.3	114	240	3500	$ 1069.00
615111948	MG33055RR88S3	55.20	3.37			182.3	120	220	3200	$ 1113.00
615111958	MG33064RR88S3	64.30	3.92			189.3	122	200	2900	$ 1157.00
615111968	MG33072RR88S3	73.40	4.48			196.3	125	200	2900	$ 1200.00
615111978	MG33080RR88S3	80.60	4.91			202.3	129	200	2900	$ 1244.00

Options

Model Code	Description	Add To List Price
R3	2 - 4 Bolt SAE B Mount c/w Outrigger Bearing (Medium Load)	$ 153.00
57 R8	2 - 4 Bolt SAE C Mount & 1-1/4" Dia. 14 Tooth Splined c/w Outrigger Bearing (Heavy Load)	$ 245.00
89 R8	2 - 4 Bolt SAE C Mount & 1-1/4" Dia. Straight Keyed c/w Outrigger Bearing (Heavy Load)	$ 245.00
1	1-5/16" UNO Rear Ports	$ 110.00

DEFINITION OF PRESSURES



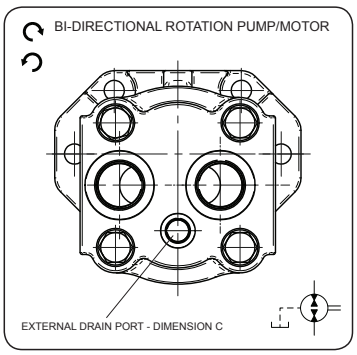
P_1 max. continuous pressure
P_2 starting pressure (depending on the application, this must be taken into consideration when setting the pressure of the hydraulic system's pressure-relief valve).

WORKING CONDITIONS

MG330

Type		23	28	34	40	47	55	64	72	80
max. continuous pressure P_1	bar (psi)	220 (3200)	240 (3500)	240 (3500)	220 (3200)	240 (3500)	220 (3200)	200 (2900)		
max. starting pressure P_2		300 (4350)			280 (4050)			260 (3800)		
min. rotational speed	min^{-1}	600			550			500		
max. rotational speed P_1		3000			2700			2500		
Motor outlet pressure P_{out} Leakage-oil line pressure P_{drain}	bar (psi)	P_{in} → $P_{out} \leqq 5$ bar (43 psi)			P_{in} → $P_{drain} < 5$ bar (43 psi) $P_{out} \leqq 120$ bar (1740 psi)					

RELEASE WITH REAR PORTS



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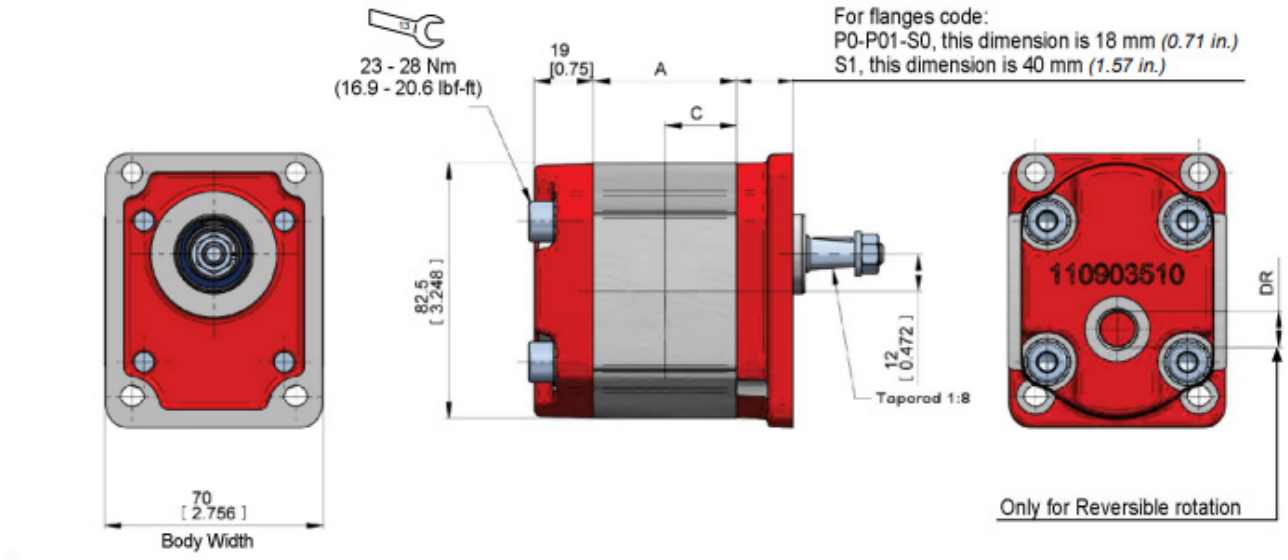
15ME Reversible Motors G18P0 & R80S0

Cast Iron Gear Motors
DIN Group 1 - 4 Bolt Mount - 1:8 Taper Shaft - 1/4” BSPP Drain Port

Displacement	Pressure
From 2.8 to 11 cc/rev	Up to 270 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
15ME28RG18P0	2.80	3/8” BSPP	3/8” BSPP	4500	250	270	$ 355.00
15ME35RG18P0	3.50			4500	250	270	$ 355.00
15ME41RG18P0	4.10			4000	250	270	$ 355.00
15ME52RG18P0	5.20			4000	230	250	$ 355.00
15ME62RG18P0	6.20			3600	230	250	$ 355.00
15ME76RG18P0	7.60	1/2” BSPP	1/2” BSPP	3300	200	220	$ 355.00
15ME93RG18P0	9.30			3000	180	200	$ 355.00
15ME110RG18P0	11.00			3000	170	190	$ 355.00

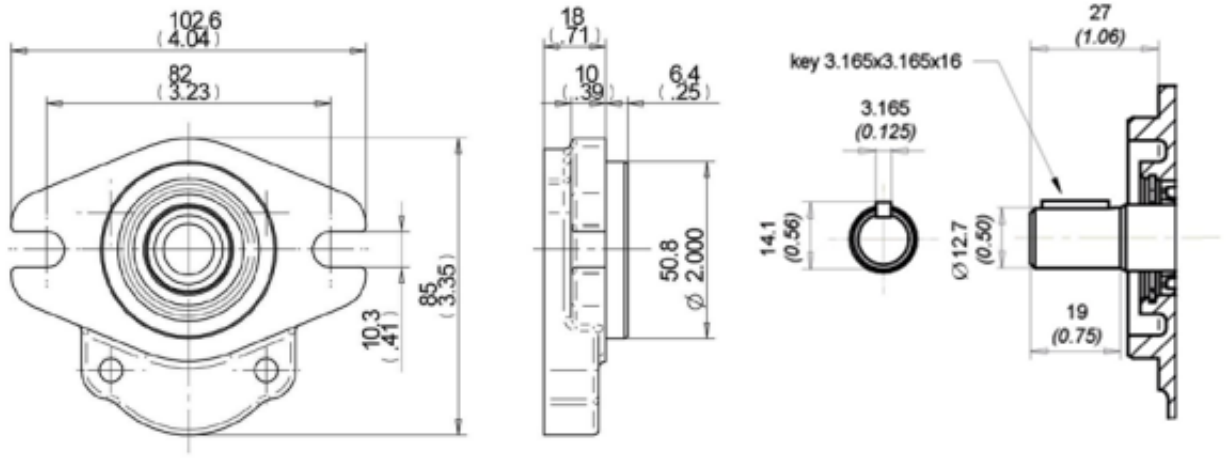


15ME Reversible Motors G18P0 & R80S0

Cast Iron Gear Motors
SAE “AA” - 2 Bolt Mount - 1/2” Straight Keyed Shaft - 9/16” UNO Drain Port

Displacement	Pressure
From 2.8 to 11 cc/rev	Up to 270 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
15ME28RR80S0	2.80	3/4" UNO	3/4" UNO	4500	250	270	$ 440.00
15ME35RR80S0	3.50			4500	250	270	$ 440.00
15ME41RR80S0	4.10			4000	250	270	$ 440.00
15ME52RR80S0	5.20			4000	230	250	$ 440.00
15ME62RR80S0	6.20			3600	230	250	$ 440.00
15ME76RR80S0	7.60	7/8" UNO	7/8" UNO	3300	200	220	$ 440.00
15ME93RR80S0	9.30			3000	180	200	$ 440.00
15ME110RR80S0	11.00			3000	170	190	$ 440.00



S0	SAE AA 2 bolts
With shaft code 51-80	

code 80	Max torque 40 Nm (354 lbf in)
SAE AA Parallel	

15ME Series Options and Accessories

Stock No.	Description	List Price
15MESEALKITP0	Shaft Seal Kit NBR Suit Mount 18P0	$ 40.00
15MESEALKITS0S1	Shaft Seal Kit NBR Suit Mount 80S0	$ 40.00

2MGE Reversible Motors G28P1, R82S2 & R85S2

Cast Iron Gear Motors
DIN Group 2 - 4 Bolt Mount - 1:8 Taper Shaft - 1/4" BSPP Drain Port

Displacement	Pressure
From 6.5 to 26.60 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
2MGE6RG28P1	6.50	1.2" BSPP	1.2" BSPP	4000	270	300	$ 590.00
2MGE8RG28P1	8.20			3500	270	300	$ 590.00
2MGE11RG28P1	11.50	3/4" BSPP	3/4" BSPP	3500	270	300	$ 625.00
2MGE14RG28P1	13.80			3500	270	300	$ 625.00
2MGE16RG28P1	16.60			3000	270	300	$ 660.00
2MGE19RG28P1	19.40			3000	270	300	$ 660.00
2MGE23RG28P1	22.90			2750	250	280	$ 695.00
2MGE26RG28P1	26.60			2500	230	260	$ 695.00

Cast Iron Gear Motors
SAE "A" - 2 Bolt Mount - 5/8" Straight Keyed Shaft - 9/16" UNO Drain Port

Displacement	Pressure
From 6.5 to 26.60 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
2MGE6RR82S2	6.50	7/8" UNO	7/8" UNO	4000	270	300	$ 590.00
2MGE8RR82S2	8.20			3500	270	300	$ 590.00
2MGE11RR82S2	11.50	1-1/16" UNO	1-1/16" UNO	3500	270	300	$ 625.00
2MGE14RR82S2	13.80			3500	270	300	$ 625.00
2MGE16RR82S2	16.60			3000	270	300	$ 660.00
2MGE19RR82S2	19.40			3000	270	300	$ 660.00
2MGE23RR82S2	22.90			2750	250	280	$ 695.00
2MGE26RR82S2	26.60			2500	230	260	$ 695.00

2MGE Series Options and Accessories

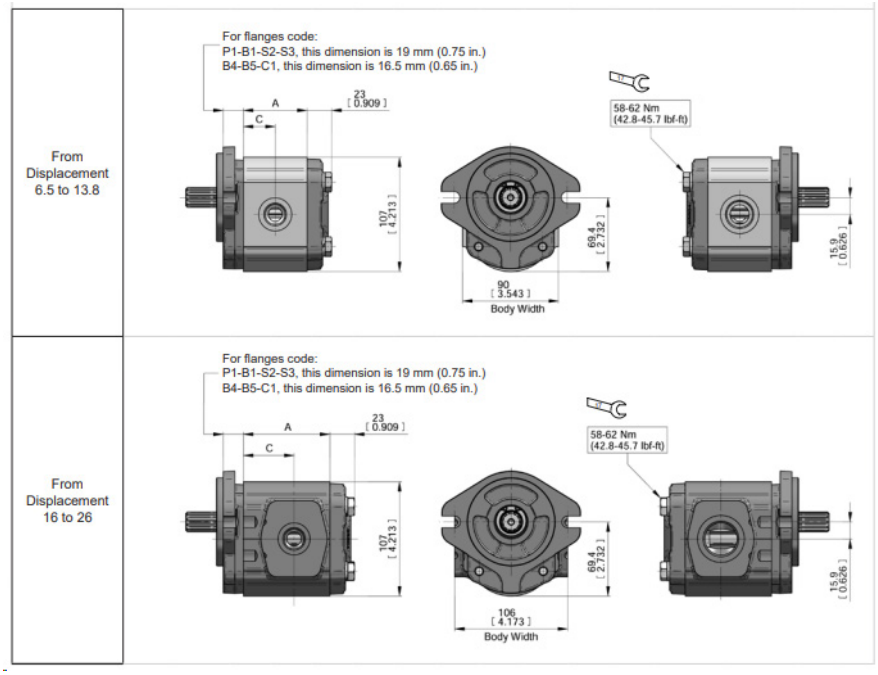
Model or Stock No.	Description	Add To List Price
1	Rear Ports	$ 32.00
IDV	Internal Drain	$ 110.00
VA	Check Valve, poppet type, cracking pressure 10psi, Input Flow up to 57LPM, up to 240bar	$ 144.00
VR	Adjustable Flow Control with Reverse Free Flow, Input Flow up to 45LPM, up to 240bar	$ 275.00

2MGE Reversible Motors G28P1, R82S2 & R85S2

Cast Iron Gear Motors
SAE “A” - 2 Bolt Mount - 3/4” Straight Keyed Shaft - 9/16” UNO Drain Port

Displacement	Pressure
From 6.5 to 26.60 cc/rev	Up to 300 Bar

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet		P1 (Continuous Pressure)	P2 (Starting Pressure)	
2MGE6RR85S2	6.50	7/8" UNO	7/8" UNO	4000	270	300	$ 590.00
2MGE8RR85S2	8.20			3500	270	300	$ 590.00
2MGE11RR85S2	11.50	1-1/16" UNO	1-1/16" UNO	3500	270	300	$ 625.00
2MGE14RR85S2	13.80			3500	270	300	$ 625.00
2MGE16RR85S2	16.60			3000	270	300	$ 660.00
2MGE19RR85S2	19.40			3000	270	300	$ 660.00
2MGE23RR85S2	22.90			2750	250	280	$ 695.00
2MGE26RR85S2	26.60			2500	230	260	$ 695.00



2MGE Series Options and Accessories

Stock No.	Description	List Price
2MESEALKIT	Motor Complete Seal Kit suit 28 & 82 shaft	$ 80.00
2MESEALKIT5485S2	Motor Complete Seal Kit suit 'A' Mount 11T Splined 54 & 3/4" Key 85 Shaft	$ 90.00
2MESEALKITVITON	Motor Complete Seal Kit Viton suit 28 & 82 shaft	$ 130.00
2MESEALKITVITON5485S2	Motor Complete Seal Kit Viton suit 'A' Mount 11T Splined 54 & 3/4" Key 85 Shaft	$ 150.00

Notes

Section 8B

Axial Piston Pumps & Motors

MAKE	MODEL	PAGE
Bondioli & Pavesi	M4MF Piston Motors	8B.108
Bondioli & Pavesi	M4MF Piston Motors	8B.109
Made In France	MA Piston Motors	8B.110
Made In France	M Piston Motors	8B.111
Made In France	MXP Piston Motors	8B.112
Continental	LPV Piston Pumps	8B.113
Continental	HPVR Piston Pumps	8B.114
Bondioli & Pavesi	HPA6 Piston Pumps	8B.115
PWG	C1 Piston Pumps	8B.116
PWG	C2 Piston Pumps	8B.117
PWG	C3 Piston Pumps	8B.118
Continental	PVR Vane Pumps	8B.119
Made In France	XPi Piston Pumps	8B.120
Made In France	XPa Piston Pumps	8B.121
Made In France	PA / PAC Piston Pumps	8B.122
Made In France	TXV Piston Pumps	8B.123
	Notes	8B.124

MAKE	MODEL	PAGE

M4MF Piston Motors

Axial Piston Motors Fixed Displacement 21~28~37

ORDERING INFORMATION

M4MF ☐ ☐ ☐ ☐ ☐ ☐ ☐

DISPLACEMENT | PORT LOCATION | ROTATION | SHAFT | PORTS | OPTIONS | PRESSURE SETTING

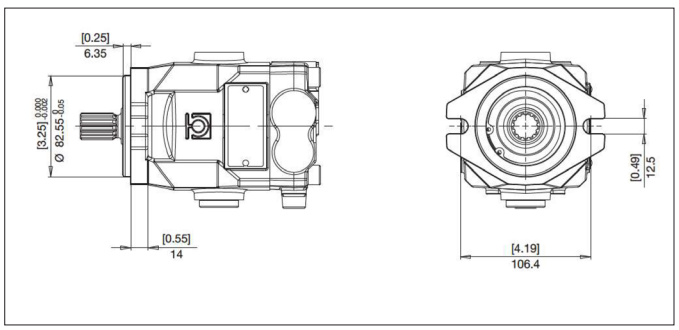
Stock No.	Displacement		Maximum Pressure Bar			Max. Speed RPM	Mounting Flange	List Price
	cu.in./rev	cc/rev	P1	P2	P3			
M4MF21****	1.28	21.00	250	300	350	3600	SAE A	$ 1900.00
M4MF28****	1.71	28.00	250	300	350	3600	SAE A	$ 2035.00
M4MF37****	2.26	37.00	250	300	350	2800	SAE A	$ 2100.00

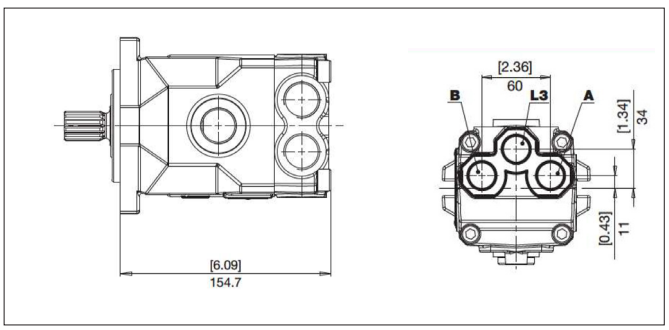
Port Location		**Add To List**
1	A & B Rear (Standard)	-
2	A & B on Opposite Sides	-
3	A & B on side	-
Direction of Rotation		
B	Bi Directional (Standard)	-

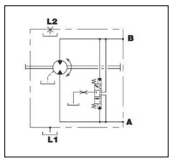
Shaft		
1	7/8” Parallel Keyed	$ 39.00
2	1” Parallel Keyed	$ 39.00
6	7/8” 13T Spline	-

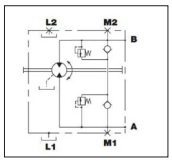
Ports		
G6	3/4” BSPP	

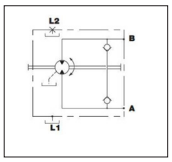
Options		
0	NIL	-
V	Purge Valve	$ 303.00
P	Rear Drain	$ 65.00
A	Anti Cavitation Valves	$ 116.00
M	Pressure Relief & Anti Cavitation Valves - B=150,D=180,E=210,G=250,I=280,L=300,O=350 bar	$ 387.00











M4MF Piston Motors

Axial Piston Motors Fixed Displacement 34~46~50~58~65

ORDERING INFORMATION

M4MF ☐ ☐ ☐ ☐ ☐ ☐ ☐

DISPLACEMENT | PORT LOCATION | ROTATION | SHAFT | PORTS | OPTIONS | PRESSURE SETTING

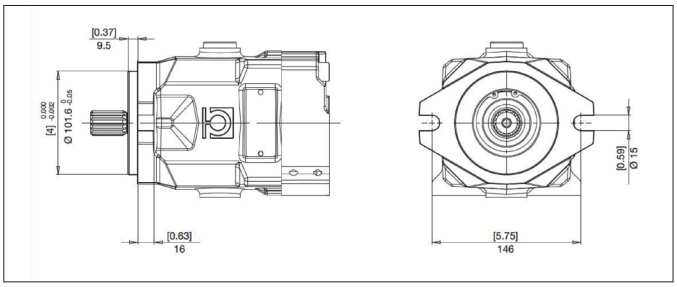
Stock No.	Displacement		Maximum Pressure Bar			Max. Speed RPM	Mounting Flange	List Price
	cu.in./rev	cc/rev	P1	P2	P3			
M4MF34****	2.08	34.00	250	330	400	3600	SAE B	$ 2160.00
M4MF46****	2.81	46.00	250	330	400	3600	SAE B	$ 2160.00
M4MF50****	3.05	50.00	250	330	400	3600	SAE B	$ 2160.00
M4MF58****	3.54	58.00	250	330	400	3600	SAE B	$ 2450.00
M4MF65****	3.97	65.00	250	300	350	3600	SAE B	$ 2693.00

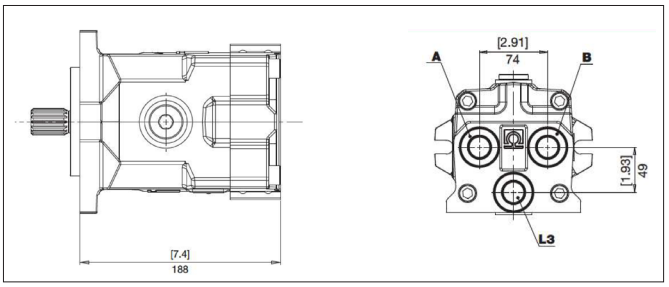
Port Location		**Add To List**
1	A & B Rear (Standard)	-
2	A & B on Opposite Sides	-
3	A & B on side	-
Direction of Rotation		
B	Bi Directional (Standard)	-

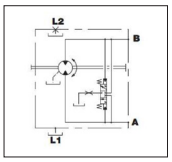
Shaft		
3	1” 15T Spline	-
4	30mm Parallel Keyed	$ 39.00
6	7/8” 13T Spline	-

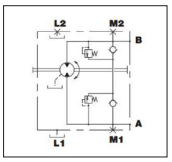
Ports		
G6	3/4” BSPP	-

Options		
0	NIL	-
V	Purge Valve	$ 304.00
P	Rear Drain	$ 65.00
M	Pressure Relief & Anti Cavitation Valves - B=150,D=180,E=210,G=250,I=280,L=300,O=350 bar	$ 793.00









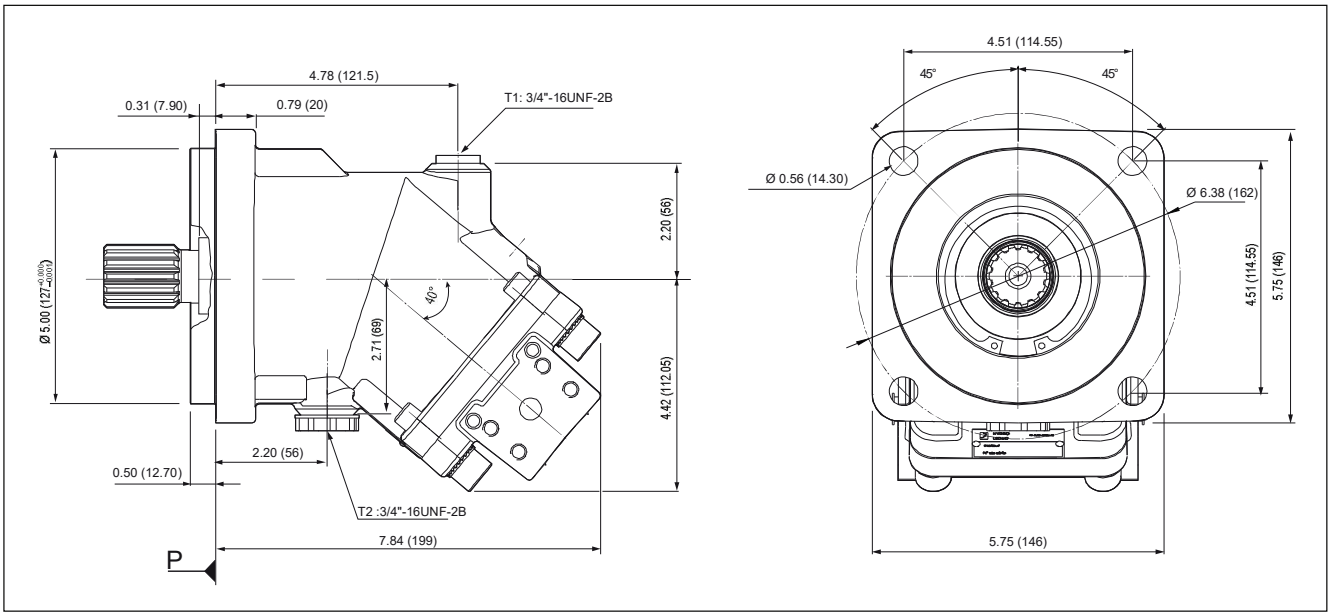
MA Piston Motors

MA Fixed Displacement Bent Axis Piston Motors

Splined / Keyed Shaft SAE B / SAE C / SAE D Mount

Stock No.	Displacement	Ports	Mount	Shaft	Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev					Cont.	Peak	
MA12K1	12	7/8” UNO	SAE B2	1” Keyed	8800	400	450	$ 2110.00
MA12S1	12	7/8” UNO	SAE B2	7/8” 13T	8800	400	450	$ 2110.00
MA18K1	18	7/8” UNO	SAE B2	1” Keyed	8800	400	450	$ 2110.00
MA18S1	18	7/8” UNO	SAE B2	7/8” 13T	8800	400	450	$ 2110.00
MA25K1	25	1-5/16” UNO	SAE C4	1-1/4” Keyed	6900	400	450	$ 2200.00
MA25S1	25	1-5/16” UNO	SAE C4	1-1/4” 14T	6900	400	450	$ 2200.00
MA32K1	32	1-5/16” UNO	SAE C4	1-1/4” Keyed	6900	400	450	$ 2300.00
MA32S1	32	1-5/16” UNO	SAE C4	1-1/4” 14T	6900	400	450	$ 2300.00
MA45K1	45	1-5/16” UNO	SAE C4	1-1/4” Keyed	5500	400	450	$ 2700.00
MA45S1	45	SAE 3/4” 6000	SAE C4	1-1/4” 14T	5500	400	450	$ 2700.00
MA50K1	50	1-5/16” UNO	SAE C4	1-1/4” Keyed	5500	400	450	$ 2700.00
MA50S1	50	SAE 1” 6000	SAE C4	1-1/4” 14T	5500	400	450	$ 2700.00
MA63K1	63	SAE 1” 6000	SAE C4	1-1/4” Keyed	5500	400	450	$ 2700.00
MA63S1	63	SAE 1” 6000	SAE C4	1-1/4” 14T	5500	400	450	$ 2700.00
MA80K1	80	SAE 1” 6000	SAE C4	1-1/2” Keyed	4500	400	450	$ 3300.00
MA80S1	80	SAE 1” 6000	SAE C4	1-1/4” 14T	4500	400	450	$ 3300.00
MA90K1	90	SAE 1” 6000	SAE C4	1-1/2” Keyed	4500	400	450	$ 3300.00
MA90S1	90	SAE 1” 6000	SAE C4	1-1/4” 14T	4500	400	450	$ 3300.00
MA125K1	125	SAE 1-1/4” 6000	SAE D4	1-3/4” Keyed	3400	400	450	$ 3450.00
MA125S1	125	SAE 1-1/4” 6000	SAE D4	1-3/4” 13T	3400	400	450	$ 3450.00

Dimensions shown for MA32



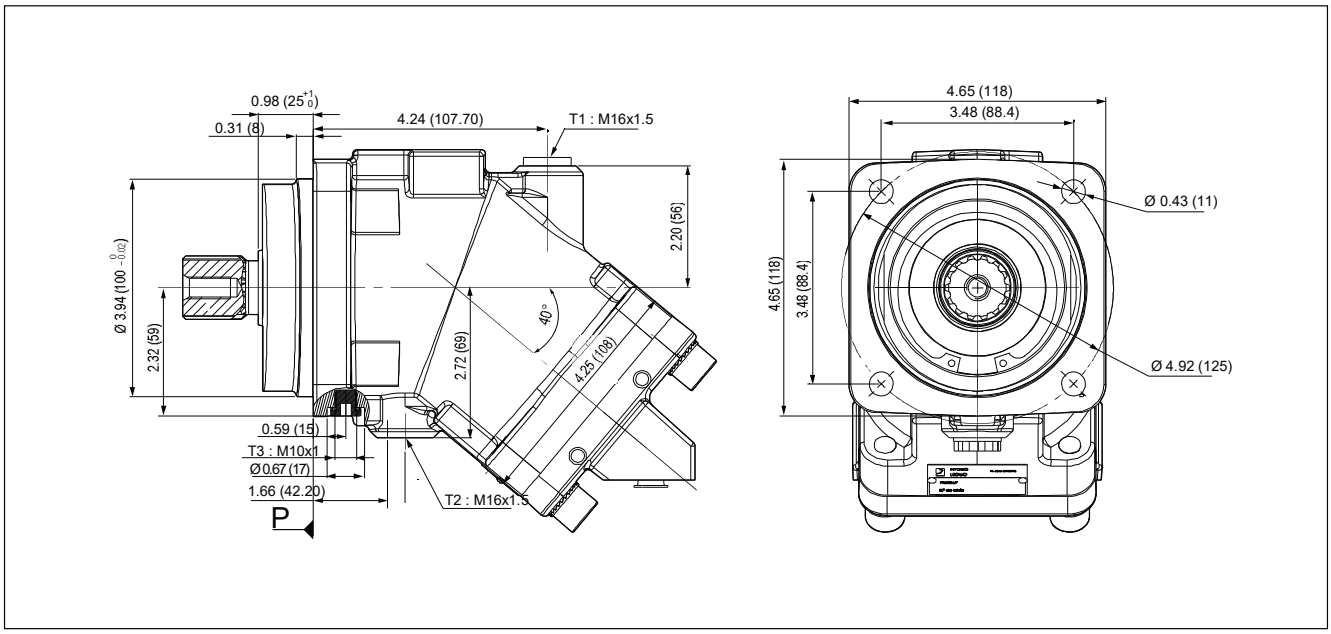
M Piston Motors

M Fixed Displacement Bent Axis Piston Motors

Splined / Keyed Shaft SAE B / SAE C / SAE D Mount

Stock No.	Displacement	Ports	Mount	Shaft	Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev					Cont.	Peak	
M5093840	5	G 1/2”	CETOP 2B	18mm Keyed	8800	400	450	$ 2075.00
M12W1	12	M22 x 1.5	ISO 80	25mm 18T	8800	400	450	$ 2400.00
M12D1	12	M22 x 1.5	ISO 80	25mm Keyed	8800	400	450	$ 2400.00
M18W1	18	M22 x 1.5	ISO 80	25mm 18T	8800	400	450	$ 2400.00
M18D1	18	M22 x 1.5	ISO 80	25mm Keyed	6900	400	450	$ 2400.00
M25W1	25	M27 x 2	ISO 100	25mm 18T	6900	400	450	$ 2400.00
M25D1	25	SAE 1/2” 6000	ISO 100	25mm Keyed	6900	400	450	$ 2400.00
M32W1	32	SAE 1/2” 6000	ISO 100	30mm 14T	6900	400	450	$ 2400.00
M32D1	32	SAE 1/2” 6000	ISO 100	30mm Keyed	5500	400	450	$ 2400.00
M45W2	45	SAE 3/4” 6000	ISO 125	35mm 16T	5500	400	450	$ 2700.00
M45D2	45	SAE 3/4” 6000	ISO 125	35mm Keyed	5500	400	450	$ 2700.00
M63W2	63	SAE 3/4” 6000	ISO 125	35mm 16T	5500	400	450	$ 2800.00
M63D2	63	SAE 3/4” 6000	ISO 125	35mm Keyed	5500	400	450	$ 2800.00
M80W1	80	SAE 1” 6000	ISO 140	40mm 18T	5500	400	450	$ 3300.00
M80D1	80	SAE 1” 6000	ISO 140	40mm Keyed	5000	400	450	$ 3300.00
M80W2	80	SAE 1” 6000	ISO 140	35mm 16T	5000	400	450	$ 3300.00
M90W1	90	SAE 1” 6000	ISO 140	40mm 18T	5000	400	450	$ 3300.00
M90D1	90	SAE 1” 6000	ISO 140	40mm Keyed	5000	400	450	$ 3300.00
M125W1	125	SAE 1-1/4” 6000	ISO 160	45mm 21T	4500	400	450	$ 3600.00
M125W2	125	SAE 1-1/4” 6000	ISO 160	40mm 18T	4500	400	450	$ 3600.00

Dimensions shown for M28-32

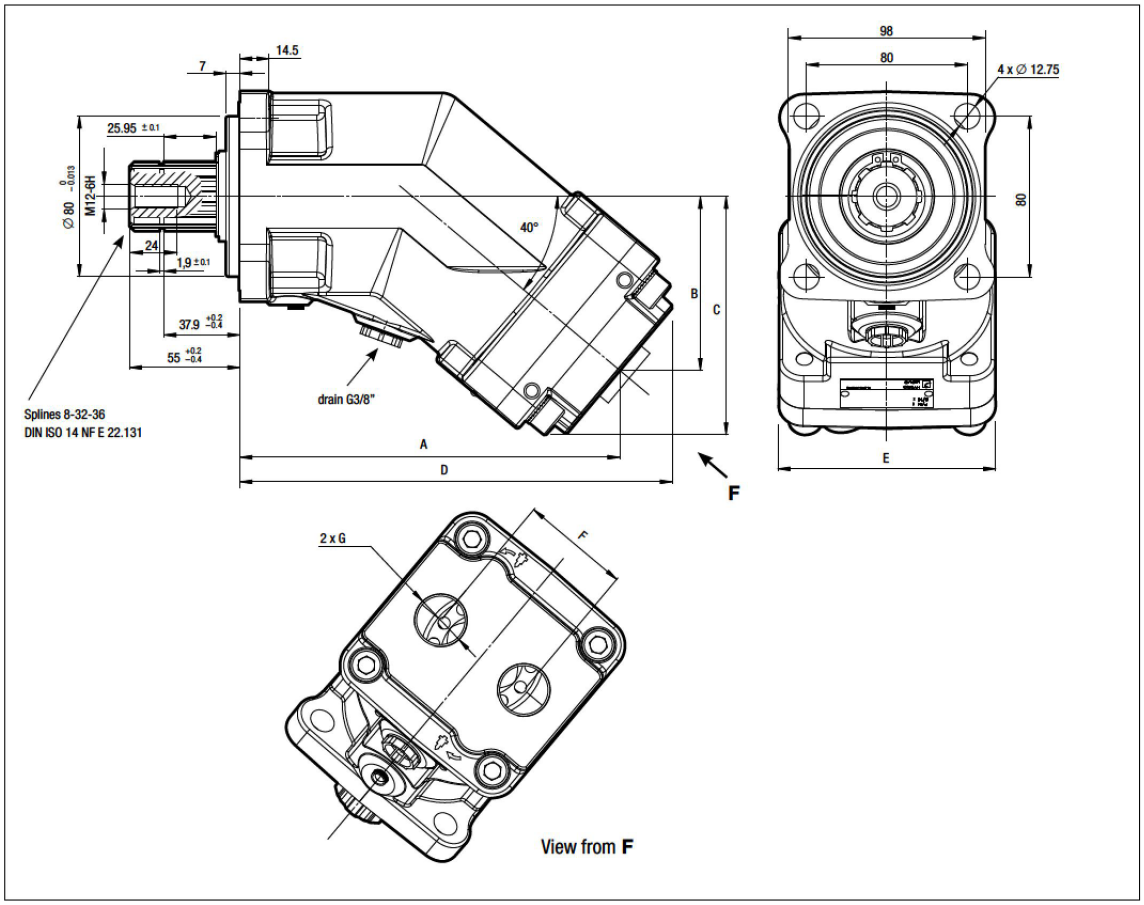


MXP Piston Motors

MXP Fixed Displacement Bent Axis Piston Motors

ISO 4B Splined Shaft DIN ISO 14 (8x32x36DIN5462)

Stock No.	Displacement cc/rev	Ports	Mount	Shaft	Max. Speed RPM	Max. Pressure Bar		List Price
						Cont.	Peak	
MXP12	12	G 3/4"	IS04B	36mm 8T	8800	400	450	$ 1800.00
MXP18	12	G 3/4"	IS04B	36mm 8T	8800	400	450	$ 1800.00
MXP25	12	G 3/4"	IS04B	36mm 8T	6900	400	450	$ 1800.00
MXP32	18	G 3/4"	IS04B	36mm 8T	6900	400	450	$ 1930.00
MXP41	18	G 3/4"	IS04B	36mm 8T	6200	400	450	$ 1930.00
MXP50	25	G 3/4"	IS04B	36mm 8T	5500	400	450	$ 2160.00
MXP63	25	G 3/4"	IS04B	36mm 8T	5500	400	450	$ 2160.00
MXP80	32	G 1"	IS04B	36mm 8T	5000	400	450	$ 2350.00
MXP108	32	G 1"	IS04B	36mm 8T	4400	400	450	$ 2700.00
MXP126	45	G 1"	IS04B	36mm 8T	4400	400	450	$ 2850.00



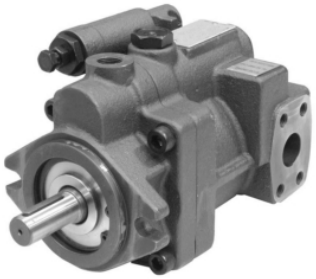
LPV Piston Pumps

LPV Axial Piston Pumps

ORDERING INFORMATION

LPV □ □ □ □ □ □

DISPLACEMENT ROTATION SEALS PORTS SHAFT CONTROLS



Stock No.	Displacement		Maximum Pressure		Max.	Mounting Flange	List Price
	cu.in./rev	cc/rev	Bar	PSI	RPM		
LPV4B30RF02S	0.488	8	210	3000	2000	SAE A	$ 2500.00
LPV8B30RF05S	0.976	16.5	210	3000	2000	SAE A	$ 2500.00
LPV11B30RF05S	1.342	22	210	3000	2000	SAE A	$ 2600.00
LPV17B30RF05S	2.100	36	210	3000	2000	SAE A	$ 2900.00

Rotations		**Add To List**
RF	Clockwise	-

Seals		
O	Buna N	-
P	Viton	-

Ports							
2S	Side	1/2” BSPP					-
5S	Side	SAE 1”					-

Shafts							
OMIT	Parallel	3/4”					-

Controls		
OMIT	Pressure Compensated	-
7	Remote Pressure	$ 200.00
19	Load Sense	$ 200.00

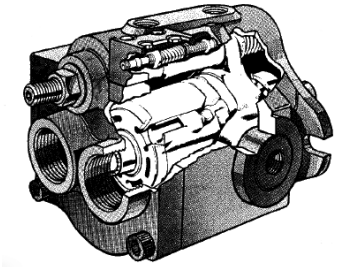
HPVR Piston Pumps

HPVR Axial Piston Pumps

ORDERING INFORMATION

HPVR □ □ □ □ □ □

DISPLACEMENT ROTATION SEALS PORTS SHAFT CONTROLS



Stock No.	Displacement		Maximum Pressure		Max.	Mounting Flange	List Price
	cu.in./rev	cc/rev	Bar	PSI	RPM		
HPVR6B35RF01R**	0.88	14.4	275	4000	3000	SAE A	$ 2800.00
HPVR10B35RF01R**	1.26	21.1	275	4000	3000	SAE B	$ 3800.00
HPVR15B35RF01R**	2.09	34.2	275	4000	3000	SAE B	$ 4200.00
HPVR20B35RF01R**	2.62	42.9	275	4000	3000	SAE C	$ 5800.00
HPVR29B30RF01R**	3.78	61.9	275	4000	3000	SAE C	$ 6200.00

Rotations		**Add To List**
RF	Clockwise	-
LF	Counter Clockwise	-
Seals		
O	Buna N	-
P	Viton	$ 330.00

Ports							
		HPVR6	HPVR10	HPVR15	HPVR20	HPVR29	
1R	Rear	1-1/16” UNO	1-5/8” UNO	1-5/8” UNO	1-5/8” UNO	1-5/8” UNO	-
1S/5S	Side	1-5/16” UNO	1-5/8” UNO	1-5/8” UNO	1-1/4” SAE CODE 62	1-1/2” SAE CODE 61	$ 81.00
Shafts							
		HPVR6	HPVR10	HPVR15	HPVR20	HPVR29	
OMIT	Parallel	3/4”	7/8”	7/8”	1-1/4”	1-1/4”	-
12	Splined	7/8” - 13T	7/8” - 13T	7/8” - 13T	1-1/4” - 14T	1-1/4” 14T	$ 51.00

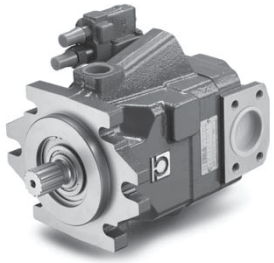
Controls		
OMIT	Pressure Compensated	-
7	Remote Pressure	$ 275.00
19	Load Sense	$ 275.00
26	Horsepower Control	$ 1300.00
Tandem (Thru Drive)		
21	SAE A Rear Pad 5/8” - 9T	$ 906.00
22	SAE B Rear Pad 7/8” - 13T	$ 988.00
31	SAE A Rear Pad 7/8” - 13T	$ 933.00
23	SAE C Rear Pad 1-1/4” - 14T	$ 1016.00

HPA6 Piston Pumps

HPA6 Axial Piston Pumps

ORDERING INFORMATION

HPA6 □ DISPLACEMENT □ ROTATION □ SHAFT □ PORTS □ CONTROLS □ THRU DRIVE □ OPTIONS



Stock No.	Displacement		Maximum Pressure Bar			Max. Speed RPM	Mounting Flange	List Price
	cu.in./rev	cc/rev	P1	P2	P3			
HPA670R3NP	4.28	70.00	280	320	350	2500	SAE C	$ 6400.00
HPA680R3NP	4.89	80.00	250	300	320	2400	SAE C	$ 6400.00
HPA690R3NP	5.50	90.00	250	300	320	2300	SAE C	$ 6400.00

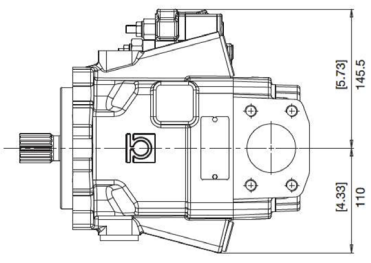
Rotations		**Add To List**
R	Clockwise	-
L	Counter Clockwise	-
Shafts		
3	Splined 1-1/4” 14T	-

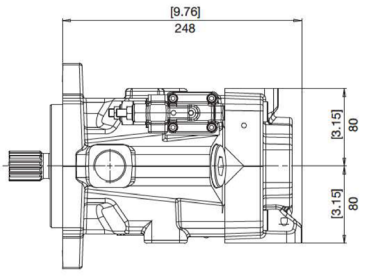
Ports				
	Inlet	Outlet		
N	51mm Metric	25mm Metric		-

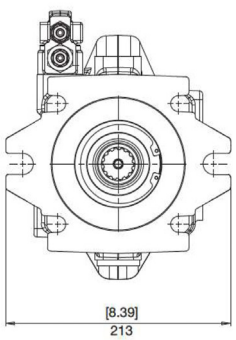
Controls		
P	Pressure Compensated - Control Setting R = 280 Bar	-
R	Remote Pressure - Control Setting 280 Bar and Pressure Differential P = 21 Bar	$ 172.00
L	Load Sense - Control Setting 280 Bar and Pressure Differential O = 14 Bar	$ 93.00

Tandem (Thru Drive)		
5	SAE A Rear Pad 5/8” - 9T	$ 397.00
6	SAE B Rear Pad 7/8” - 13T	$ 397.00
7	SAE C Rear Pad 1/1-4” - 14T	$ 397.00

Options		
ID	Internal Drain	$ 77.00







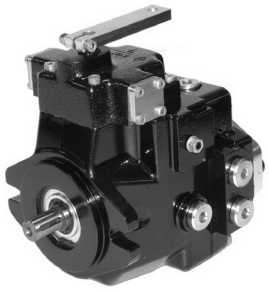
C1 Piston Pumps

C1 Axial Piston Pumps Closed Loop

ORDERING INFORMATION

C1 ☐ ☐ ☐ ☐ ☐ ☐ ☐

DISPLACEMENT CONTROLS REAR COVER RELIEF ROTATION SHAFT OPTIONS



Stock No.	Displacement		Maximum Pressure		Max.	Mounting Flange	List Price
	cu.in./rev	cc/rev	Bar	PSI	RPM		
C114****G*	0.85	14	250	3625	3600	SAE A	$ 1528.00
C118****G*	1.1	18	250	3625	3600	SAE A	$ 1578.00

Controls		**Add To List**
LWX	Manual without Zeroing	$ 0.00
LNX	Manual with Zeroing	$ 173.00
LRX	Manual Lever with Feedback	$ 415.00
IND	Hydraulic Proportional without Feedback	$ 172.00
IRX	Hydraulic Proportional with Feedback	$ 475.00

Rear Cover Thru Drive		
1	Without Thru Drive with Charge Pump	$ 0.00
2	Without Thru Drive without Charge Pump	$ 0.00
3	SAE A 5/8” 9 Tooth Female Spline with Charge Pump	$ 71.00
4	SAE A 5/8” 9 Tooth Female Spline without Charge Pump	$ 71.00

Pressure Relief Valve		
21	210 Bar	$ 0.00

Direction of Rotation		
R	Right Hand Rotation CW	$ 0.00
L	Left Hand Rotation CCW	$ 0.00

Drive Shaft		
1	Splined 5/8” 9 Tooth Male	$ 0.00
5	Parallel 5/8” Keyed	$ 0.00

Options		
00	Without Options	$ 0.00
FI	With Filter	$ 320.00
FE	With Filter and Electrical Sensor	$ 608.00
BP	With Bypass	$ 140.00

C2 Piston Pumps

C2 Axial Piston Pumps Closed Loop

ORDERING INFORMATION

C2 ☐ ☐ ☐ ☐ ☐ ☐ ☐

DISPLACEMENT CONTROLS REAR COVER RELIEF ROTATION SHAFT OPTIONS

Stock No.	Displacement		Maximum Pressure		Max.	Mounting Flange	List Price
	cu.in./rev	cc/rev	Bar	PSI	RPM		
C221****G*	1.28	21	300	4350	3600	SAE B	$ 2690.00
C228****G*	1.70	28	300	4350	3600	SAE B	$ 2690.00

Controls		**Add To List**
LRX	Manual Lever with Feedback	$ 415.00
LNX	Manual with Zeroing	$ 173.00
IRX	Hydraulic Proportional with Feedback	$ 475.00
INP	Hydraulic Proportional without Feedback	$ 121.00
E12/E14	Electric Impulse 12 or 24 Volt	$ 436.00
E22/E24	Electric 2 Position 12 or 24 Volt	$ 436.00
ER2/ER4	Electric Proportional with Feedback	$ 1,351.00
EP2/EP4	Electric Proportional without Feedback	$ 1,018.00
EH2/EH4	Hydraulic / Electric Proportional with Feedback	$ 1,431.00

Rear Cover Thru Drive		
1	Without Thru Drive with Charge Pump	$ 0.00
2	Without Thru Drive without Charge Pump	$ 0.00
3	SAE A 5/8” 9 Tooth Female Spline with Charge Pump	$ 71.00
4	SAE B 7/8” 13 Tooth Female Spline with Charge Pump	$ 98.00

Pressure Relief Valve		
25	250 Bar	$ 0.00

Direction of Rotation		
R	Right Hand Rotation CW	$ 0.00
L	Left Hand Rotation CCW	$ 0.00

Drive Shaft		
1	Splined 7/8” 13 Tooth Male (with 3 rear cover)	$ 0.00
3	Splined 1” 15 Tooth Male (with 4 rear cover)	$ 0.00
5	Splined 1” 15 Tooth Male (with 3 rear cover)	$ 0.00

Options		
00	Without Options	$ 0.00
FI	With Filter	$ 320.00
FE	With Filter and Electrical Sensor	$ 608.00
BP	With Bypass	$ 140.00

C3 Piston Pumps

C3 Axial Piston Pumps Closed Loop

ORDERING INFORMATION

C3 ☐ ☐ ☐ ☐ ☐ ☐ ☐

DISPLACEMENT CONTROLS REAR COVER RELIEF ROTATION SHAFT OPTIONS

Stock No.	Displacement		Maximum Pressure		Max.	Mounting Flange	List Price
	cu.in./rev	cc/rev	Bar	PSI	RPM		
C346****G*	2.80	46	350	5075	3600	SAE B	$ 3340.00
C350****G*	3.05	50	350	5075	3600	SAE B	$ 3340.00
C364****G*	3.90	64	350	5075	3600	SAE B	$ 3340.00

Controls		**Add To List**
LRX	Manual Lever with Feedback	$ 415.00
LNX	Manual with Zeroing	$ 0.00
IRX	Hydraulic Proportional with Feedback	$ 475.00
INP	Hydraulic Proportional without Feedback	$ 121.00
E12/E14	Electric Impulse 12 or 24 Volt	$ 436.00
E22/E24	Electric 2 Position 12 or 24 Volt	$ 436.00
ER2/ER4	Electric Proportional with Feedback	$ 1,351.00
EP2/EP4	Electric Proportional without Feedback	$ 1,018.00
EH2/EH4	Hydraulic / Electric Proportional with Feedback	$ 1,431.00

Rear Cover Thru Drive		
1	Without Thru Drive with Charge Pump	$ 0.00
2	Without Thru Drive without Charge Pump	$ 0.00
3	SAE A 5/8” 9 Tooth Female Spline with Charge Pump	$ 71.00
4	SAE B 7/8” 13 Tooth Female Spline with Charge Pump	$ 98.00
12	SAE B 1” 15 Tooth Female Spline with Charge Pump	$ 98.00

Pressure Relief Valve		
25	250 Bar	$ 0.00

Direction of Rotation		
R	Right Hand Rotation CW	$ 0.00
L	Left Hand Rotation CCW	$ 0.00

Drive Shaft		
1	Splined 1” 15 Tooth Male (with 3 rear cover)	$ 0.00
2	Splined 1” 15 Tooth Male (with 4 and 12 rear cover)	$ 0.00
5	Splined 7/8” 13 Tooth Male (with 3 rear cover)	$ 0.00

Options		
00	Without Options	$ 0.00
FI	With Filter	$ 320.00
FE	With Filter and Electrical Sensor	$ 608.00
BP	With Bypass	$ 140.00

PVR Vane Pumps

PVR Vane Pumps Pressure Compensated

ORDERING INFORMATION

Flanged Mounted
SAE "A" 2-Bolt

PVR □ □ **RF** □ □

DISPLACEMENT | PRESSURE RANGE | SEALS | MECHANICAL OPTIONS

Stock No.	Displacement		Maximum Pressure		Max.	Mounting Flange	List Price
	cu.in./rev	cc/rev	Bar	PSI	RPM		
PVR64B20RF0*	0.7	11.5	138	2000	3600	SAE A	$ 2500.00
PVR66B20RF0*	0.9	14.8	138	2000	2800	SAE A	$ 2400.00
PVR68B20RF0*	1.2	19.7	138	2000	2100	SAE A	$ 2500.00
PVR610B10RF0*	1.4	23.1	69	1000	1800	SAE A	$ 2700.00
PVR1515B5RF*	2.4	39.3	138	2000	2400	SAE B	$ 4030.00
PVR1520B15RF*	2.8	46	103	1500	2250	SAE B	$ 4030.00
PVR1530B10RF*	4.3	70.5	69	1000	1800	SAE B	$ 4600.00
PVR5050B15RF*	7.7	126	103	1500	1900	SAE D	$ 10,900.00
PVR5070B15RF*	9.9	162	103	1500	1900	SAE D	$ 10,900.00

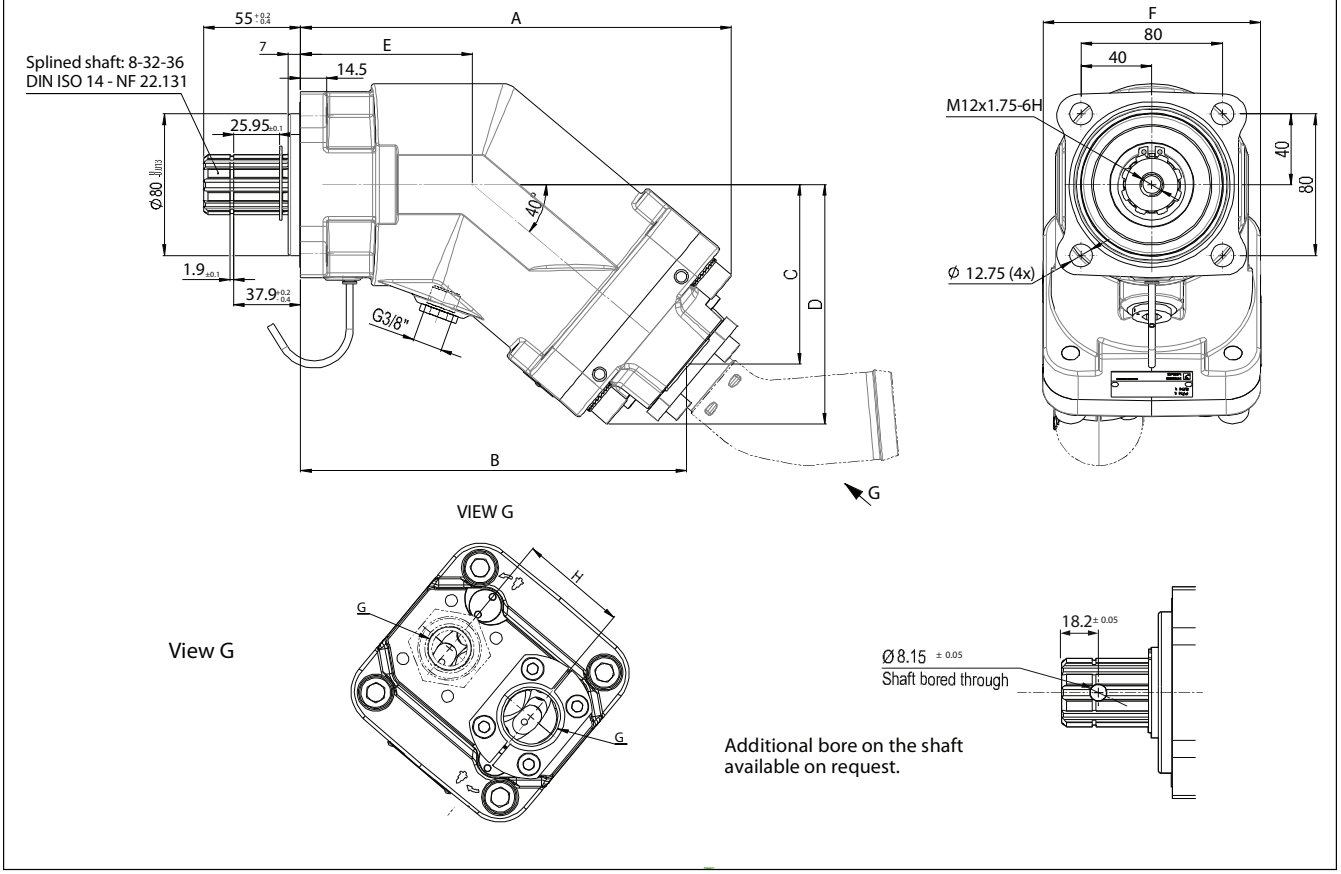
Compensating Pressure Range		**Add To List**
20	51 - 137 Bar	-
Seals		
O	Buna N	-
P	Viton	$ 110.00
Mechanical Options		
6	Maximum Volume Control	-
15	Handwheel Pressure Control	$ 338.00
21	SAE A Rear Pad Thru Drive Option	$ 646.00
36	Handwheel Volume Control	$ 338.00
22	SAE B Rear Pad Thru Drive Option	$ 742.00
23	SAE C Rear Pad Thru Drive Option	$ 1833.00

XPi Piston Pumps

XPi Fixed Displacement Bent Axis Piston Pumps

ISO 80 Splined Shaft DIN ISO 14 (8 - 32 - 36)

Stock No.	Displacement	Ports		Dimension mm		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet	A	B		P1	P2	P3	
XPi12-0523820	12	G 3/4”	G 3/4”	197	178	3150	380	400	420	$ 1350.00
XPi18-0523810	18	G 3/4”	G 3/4”	197	178	2900	380	400	420	$ 1350.00
XPi25-0523800	25	G 3/4”	G 3/4”	197	178	2750	380	400	420	$ 1350.00
XPi32-0523790	32	G 3/4”	G 3/4”	203	83	2700	380	400	420	$ 1350.00
XPi41-0523780	41	G 3/4”	G 3/4”	203	83	2550	380	400	420	$ 1450.00
XPi50-0523770	50.3	G 3/4”	G 3/4”	214	92	2450	380	400	420	$ 1450.00
XPi63-0523760	63	G 3/4”	G 3/4”	214	92	2300	380	400	420	$ 1450.00
XPi80-0523640	80.4	G 1”	G 1”	242	103	2150	380	400	420	$ 1645.00
XPi108-0523750	108.3	G 1”	G 1”	242	105	1900	380	400	420	$ 1830.00
XPi130-0523730	129.8	G 1”	G 1”	244	107	1750	380	400	420	$ 2050.00



By-Pass Valves

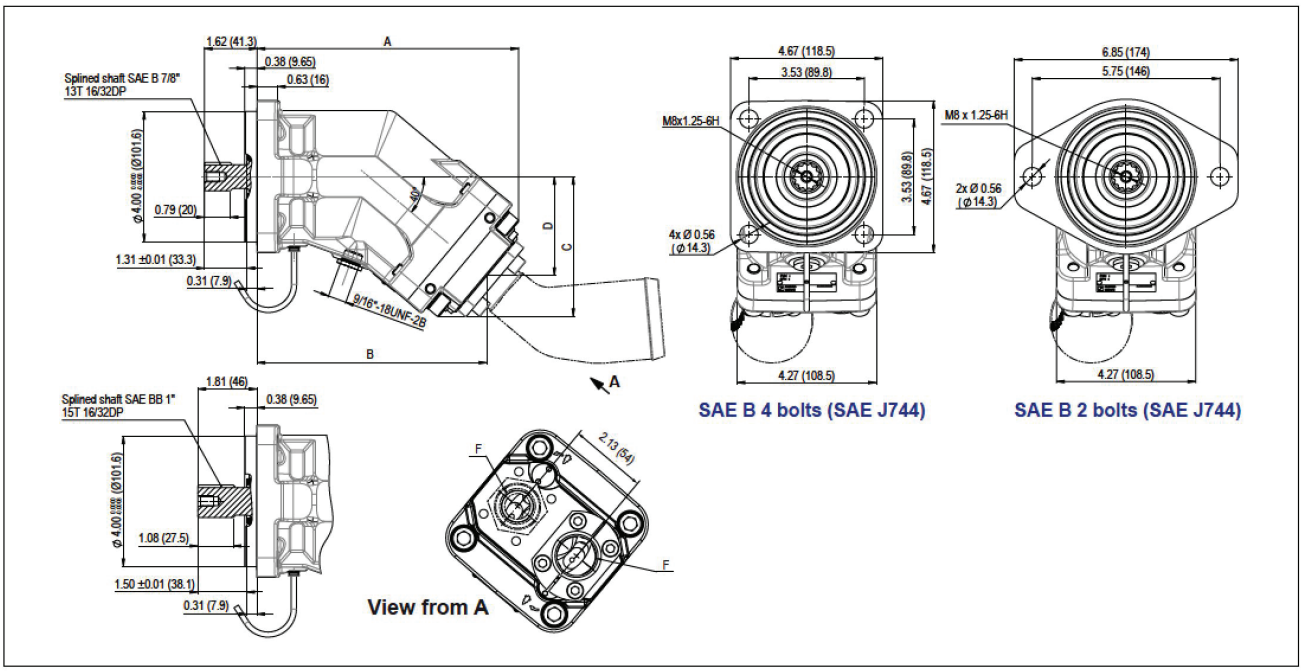
Stock No.	Description	List Price
BP630521180	By-Pass Valve for XPi 12-63 12V	$ 1245.00
BP800522235	By-Pass Valve for XPi 80-130 12V	$ 1245.00
BP630517931	By-Pass Valve for XPi 12-63 24V	$ 1245.00
BP800522140	By-Pass Valve for XPi 80-130 24V	$ 1245.00

XAi Piston Pumps

XAi Fixed Displacement Bent Axis Piston Pumps

Splined Shaft SAE B Mount

Stock No.	Displacement cc/rev	Ports	Mount	Shaft	Max. Speed RPM	Max. Pressure Bar Cont.	Max. Pressure Bar Peak	List Price
XAi18	18	3/4” UNO	SAE B2	7/8” 13T	2900	380	420	$ 2400.00
XAi25	25	3/4” UNO	SAE B2	7/8” 13T	2750	380	420	$ 2400.00
XAi32	32	3/4” UNO	SAE B2	7/8” 13T	2700	380	420	$ 2400.00
XAi41	41	1-1/16” UNO	SAE B2	7/8” 13T	2550	380	420	$ 2400.00
XAi50	50	1-1/16” UNO	SAE B4	7/8” 13T	2450	380	420	$ 2400.00
XAi63	63	1-1/16” UNO	SAE B4	7/8” 13T	2300	380	420	$ 2400.00

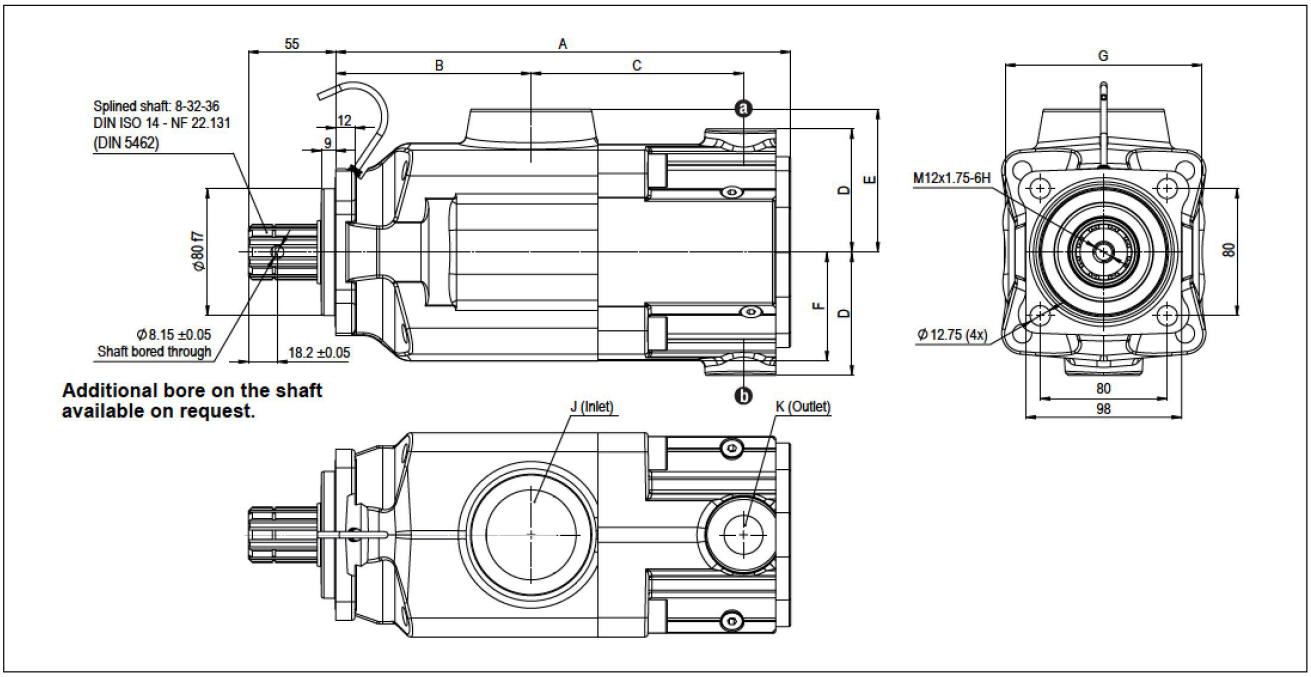


PA / PAC Piston Pumps

PA / PAC Fixed Displacement Inline Piston Pumps

ISO 4B Splined Shaft DIN ISO 14 (8 - 32 - 36)

Stock No.	Displacement	Ports		Mount	Shaft	Max. Speed RPM	Max. Pressure Bar		List Price
	cc/rev	Inlet	Outlet				Cont.	Peak	
PA25	25	G 1-1/2”	G 3/4”	IS04B	36mm 8T	2200	380	400	$ 2600.00
PA32	32	G 1-1/2”	G 3/4”	IS04B	36mm 8T	2000	380	400	$ 2600.00
PA40	43	G 1-1/2”	G 3/4”	IS04B	36mm 8T	1750	380	400	$ 2600.00
PAC40	43	G 1-1/2”	G 3/4”	IS04B	36mm 8T	1800	380	400	$ 2600.00
PA50	50	G 1-1/2”	G 3/4”	IS04B	36mm 8T	1650	380	400	$ 2800.00
PAC50	50	G 1-1/2”	G 3/4”	IS04B	36mm 8T	1650	380	400	$ 2800.00

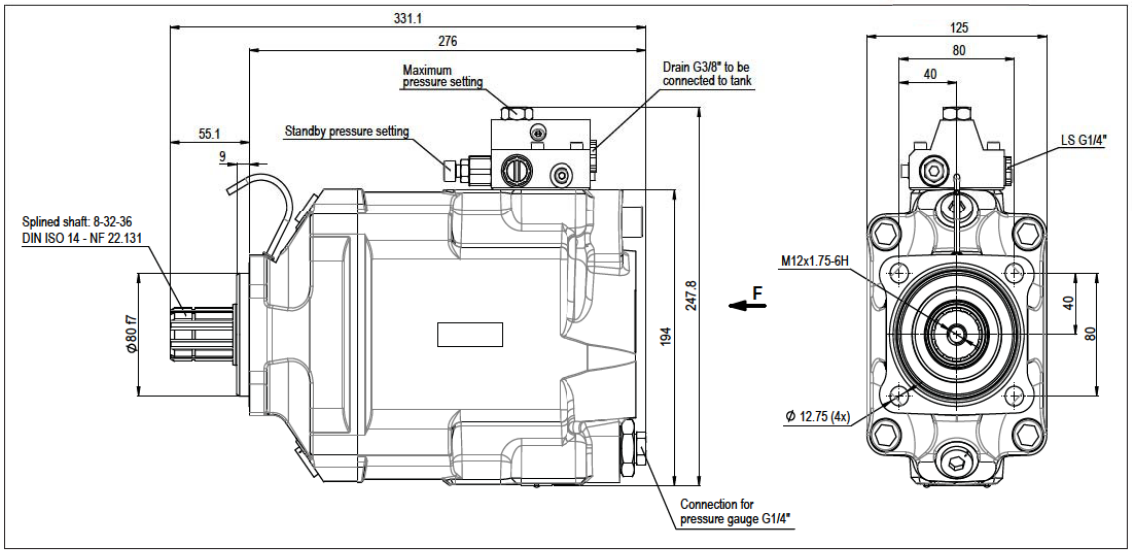


TXV Piston Pumps

TXV Variable Load Senes Inline Piston Pumps

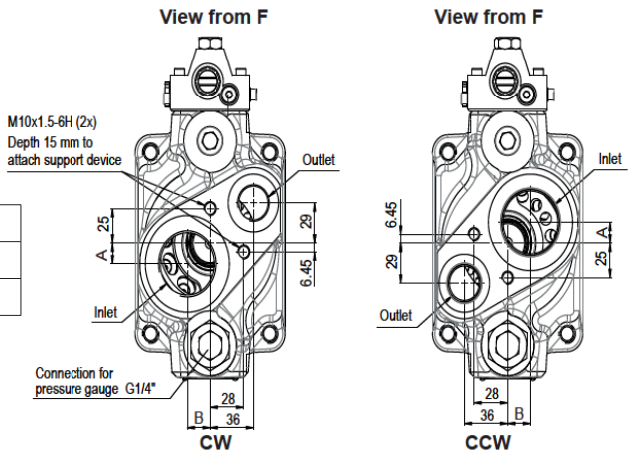
ISO 80 Splined Shaft DIN ISO 14 (8 - 32 - 36)

Stock No.	Displacement	Ports		Max. Speed RPM	Max. Pressure Bar			List Price
	cc/rev	Inlet	Outlet		P1	P2	P3	
TXV40CW	40	G 1-1/2”	G 3/4”	3000	400	420	440	$ 4750.00
TXV60CW	60	G 1-1/2”	G 3/4”	2600	400	420	440	$ 4750.00
TXV75CW	75	G 1-1/2”	G 3/4”	2000	400	420	440	$ 4750.00
TXV92CW	92	G 1-1/2”	G 3/4”	1900	380	390	400	$ 5026.00
TXV120CW	120	G 1-1/2”	G 1”	2100	380	390	400	$ 5480.00
TXV130CW	130	G 1-1/2”	G 1”	1900	380	390	400	$ 6900.00
TXV150CW	150	G 1-1/2”	G 1”	1900	380	390	400	$ 9400.00
TXV130CWTHRU	130	G 1-1/2”	G 1”	1900	380	390	400	$ 9400.00



Dimensions in mm.

Pump	Outlet	Inlet	A mm	B mm
TXV 40 to 92	G 3/4”	G 1-1/2”	15	19
TXV 120	G 1”	G 1-1/2”	6	23.57



Notes

Section 9

Hand Pumps, Power Packs, Tanks & Oil Coolers

MAKE	MODEL	PAGE
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OMFB	PM Hand Pumps	9.03
HV Hydraulics	PMP12E Hand Pumps	9.04
HV Hydraulics	PM2P Hand Pumps	9.05
HV Hydraulics	PMDVB Hand Pumps	9.06
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Oil Sistem	DL Dock Leveller Power Pack	9.09
MTE	DCA Power Packs	9.10
Oil Sistem	DCE Power Packs	9.11
Oil Sistem	CHME AC Pre-Assembled Units	9.12
OMT	BC Micro Pre-Assembled Units	9.13
Oil Sistem	CHK Vertical Pre-Assembled Units	9.14
Oil Sistem	K Series Pre-Assembled Units	9.15
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OMT	BC Micro Power Units	9.20
Cross	CP Standard Power Units	9.21
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Cross	CHA Standard Power Units	9.23
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OMT	SS Air/Oil Heat Exchangers	9.27
OMT	SS Air/Oil Heat Exchangers	9.28
OMT	Tank Top Manifolds & Accessories	9.29
OMT	Tank Top Stackable Manifolds	9.30
Cross	Tank Top Manifolds & Accessories	9.31
Made In Italy	Tank Top Manifolds & Accessories	9.32
Made In Italy	Tank Top Stackable Manifolds	9.32
Made In Italy	Stackable Manifolds	9.33
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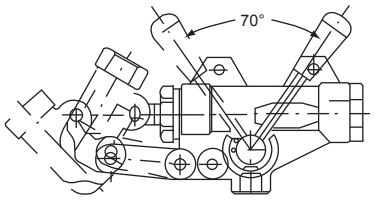
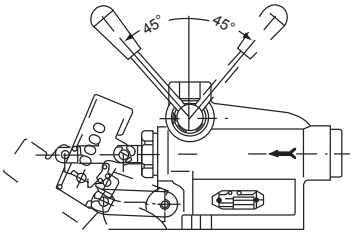
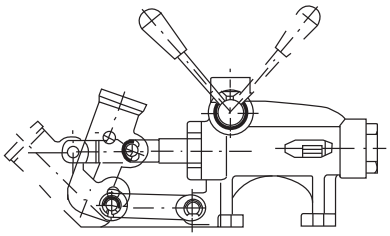
Made In Italy	Tank Top Manifolds & Accessories	9.36
Made In Italy	Tank Top Manifolds & Accessories	9.37
OMT	FFS Suction Return Flanges	9.38

MAKE	MODEL	PAGE

PM Hand Pumps

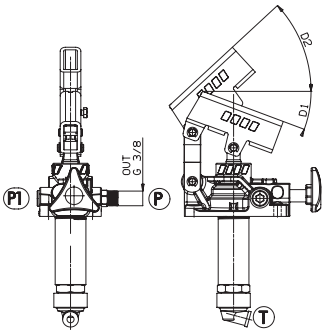




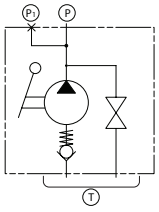


Tankless Hand Pumps - 1/2" BSPP Suction & Pressure Ports

Stock No.	Description	Max Pressure Bar	Displacement cm3		Weight Kg	List Price
			Going	Return		
PM20	Tankless Hand Pump	300	10	10	3.9	$ 402.00
PM50	Tankless Hand Pump	250	25	18	5.8	$ 572.00
PM70	Tankless Hand Pump	200	35	32	7.3	$ 600.00

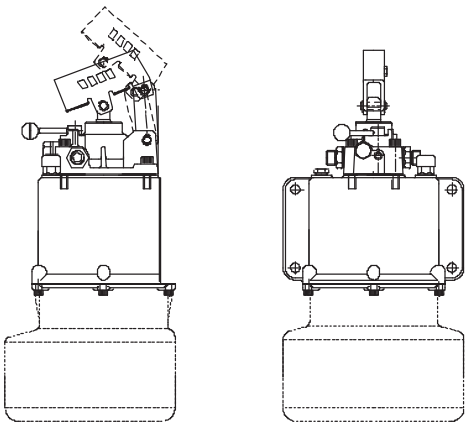


Hydraulic Layout

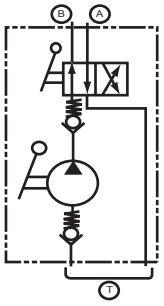


Hand Pump - Single Acting Valve with Tank

Stock No.	Description	Displacement cm3	Pressure Bar		Weight Kg	List Price
			Work	Peak		
PMS12S1	Single Acting - 1 Litre Tank	12	300	350	4.5	$ 627.00
PMS25S1	Single Acting - 1 Litre Tank	25	250	300	4.5	$ 649.00
PMS45S1	Single Acting - 1 Litre Tank	45	220	270	4.5	$ 671.00



Hydraulic Layout



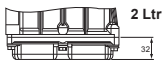
Hand Pump - Double Acting Valve with Tank

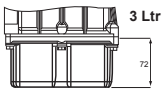
Stock No.	Description	Displacement cm3	Pressure Bar		Weight Kg	List Price
			Work	Peak		
PMI12S1	Double Acting - 1 Litre Tank	12	300	350	5.0	$ 671.00
PMI25S1	Double Acting - 1 Litre Tank	25	250	300	5.0	$ 698.00
PMI45S1	Double Acting - 1 Litre Tank	45	220	270	5.0	$ 725.00

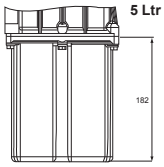
PM Hand Pumps

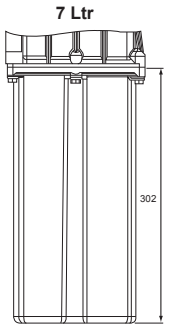
Optional Larger Tanks - Aluminium / ABS

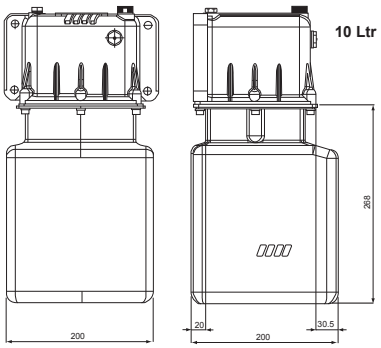
Stock No.	Description	Weight Kg	Add To List Price
514569	2 Litre Tank	0.9	$ 13.00
514578	3 Litre Tank	1.1	$ 25.00
514587	5 Litre Tank	1.7	$ 36.00
514541	7 Litre Tank	2.5	$ 59.00
514550	10 Litre Tank	3.3	$ 89.00





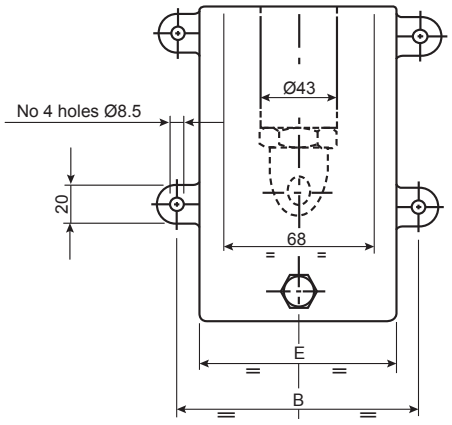


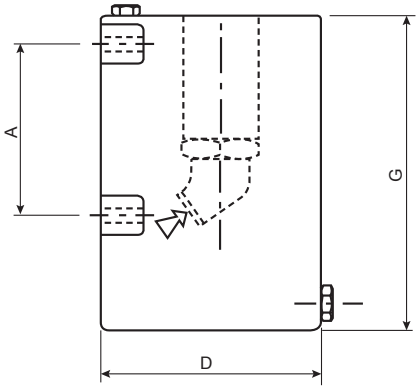




Optional Larger Tanks - Steel

Stock No.	Description	Dim. A	Dim. B	Dim. D	Dim. E	Dim. G	Weight Kg	Add To List Price
9352106001	1 Litre Tank	90	120	150	100	120	2.0	$ 30.00
9352106002	2 Litre Tank					180	2.2	$ 40.00
9352106003	3 Litre Tank					247	2.5	$ 60.00
9352106004	5 Litre Tank		195	175	206	200	4.5	$ 80.00





Hand Pump Body - No Tank

Stock No.	Description	Displacement cm3	Pressure Bar		Weight Kg	List Price
			Work	Peak		
PMSSS12	Single Acting - No Tank	12	300	350	3.0	$ 504.00
PMSSS25	Single Acting - No Tank	25	250	300	3.0	$ 525.00
PMSSS45	Single Acting - No Tank	45	220	270	3.3	$ 550.00
PMISS12	Double Acting - No Tank	12	300	350	3.5	$ 550.00
PMISS25	Double Acting - No Tank	25	250	300	3.5	$ 572.00
PMISS45	Double Acting - No Tank	45	220	270	3.8	$ 605.00

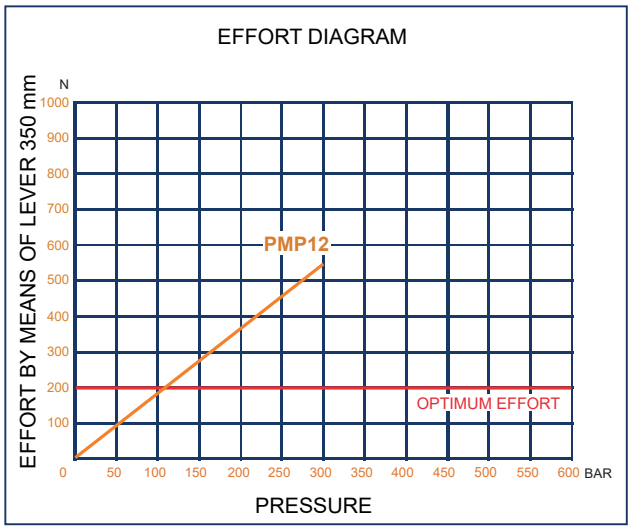
VS	Relief Valve Option (40 - 300 Bar Adjustment Range)	$ 51.00

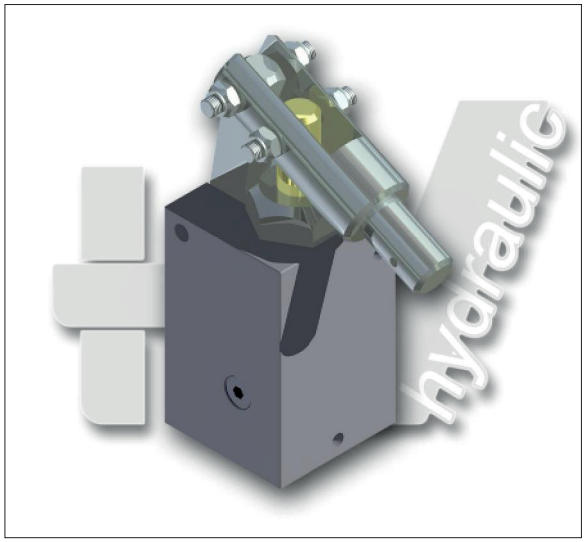
Note: Displacement in 'tank' units is per cycle (extend and retract).

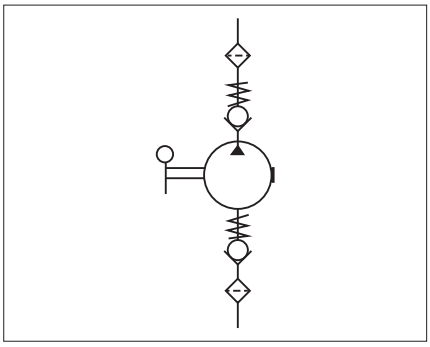
PMP12E Hand Pumps

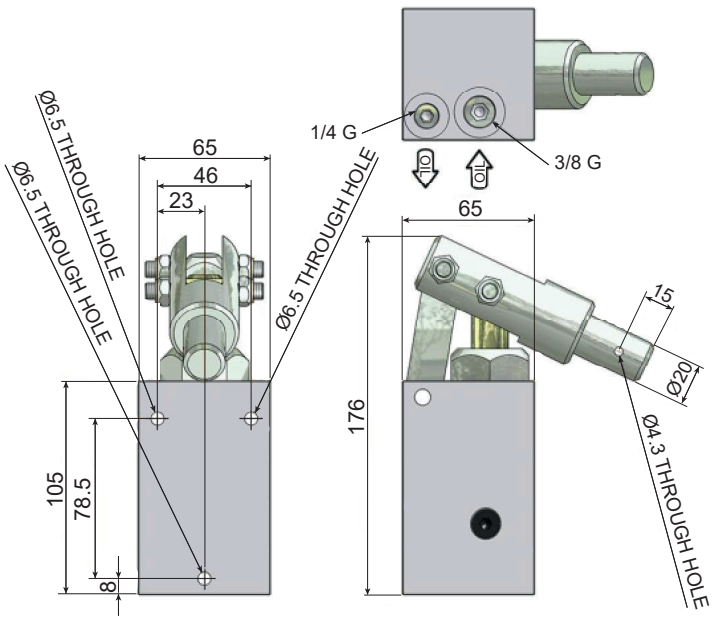
Double Acting Hand Pump For A Single Acting Cylinder For Fixing To A Wall Without Release Hand Knob

Stock No.	Description	Max. Pressure Bar	Displacement cm^3	Weight Kg	List Price
PMP12E	Hand Pump 12CC	300	12	2.1	$ 700.00









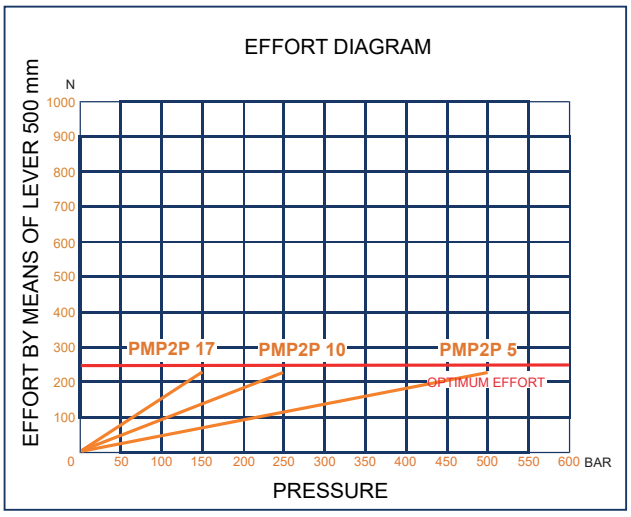
Specifications:

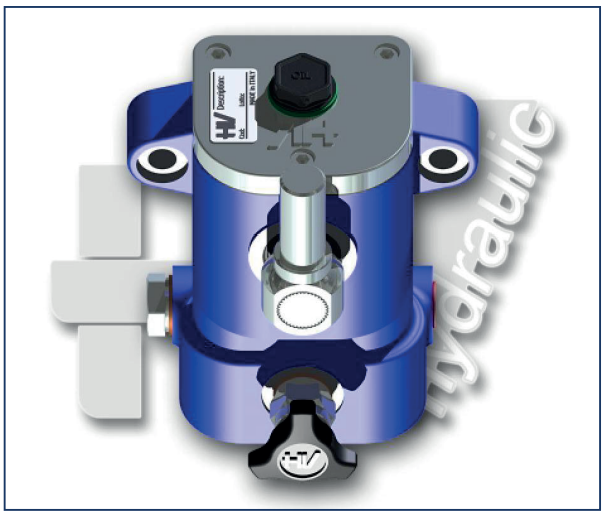
- Aluminium body
- Piston treated with Niploy
- White zinc plated support lever
- Lever connection Ø20
- White zinc plated external parts

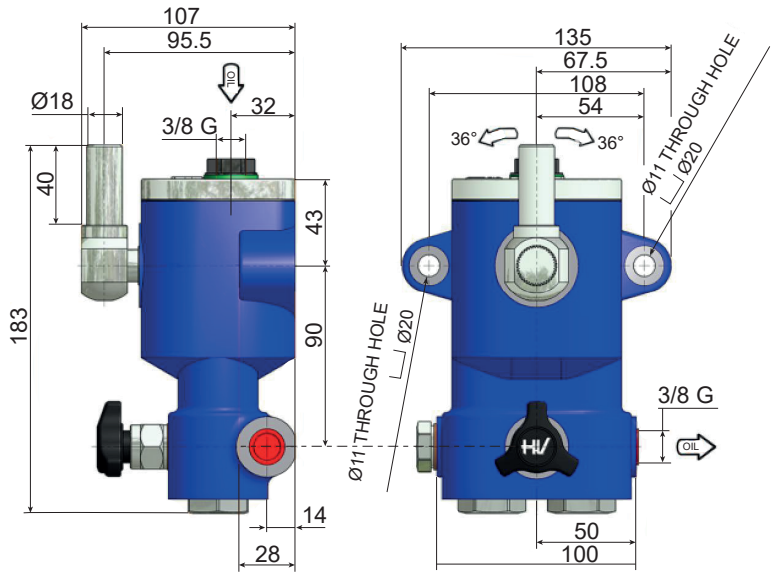
PM2P Hand Pumps

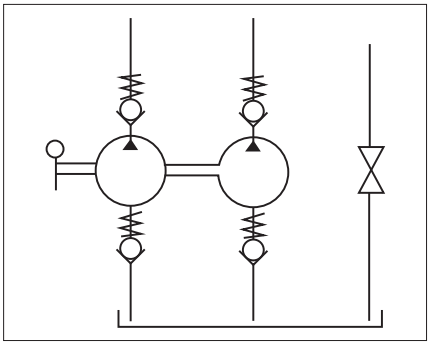
Double Acting Hand Pump For Single Acting Cylinder For Fixing Both To A Wall And To A Tank With Release Hand Knob

Stock No.	Description	Max. Pressure Bar	Displacement cm^3	Weight Kg	List Price
PM2P5	Hand Pump 5CC	500	5	4.2	$ 900.00
PM2P10	Hand Pump 10CC	250	10	4.2	$ 900.00
PM2P17	Hand Pump 17CC	150	17	4.2	$ 900.00









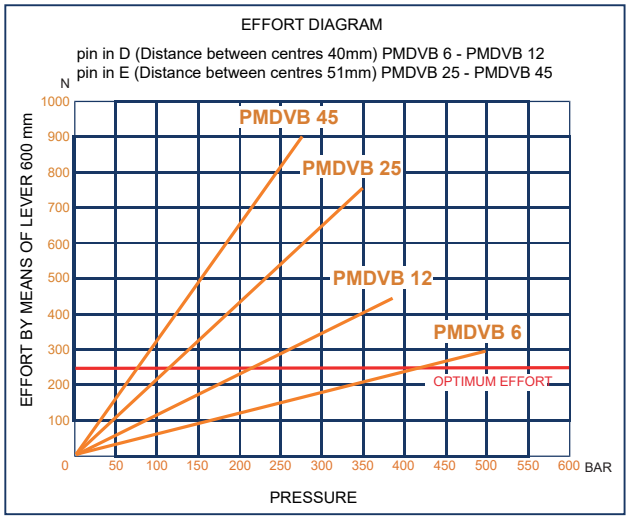
Specifications:

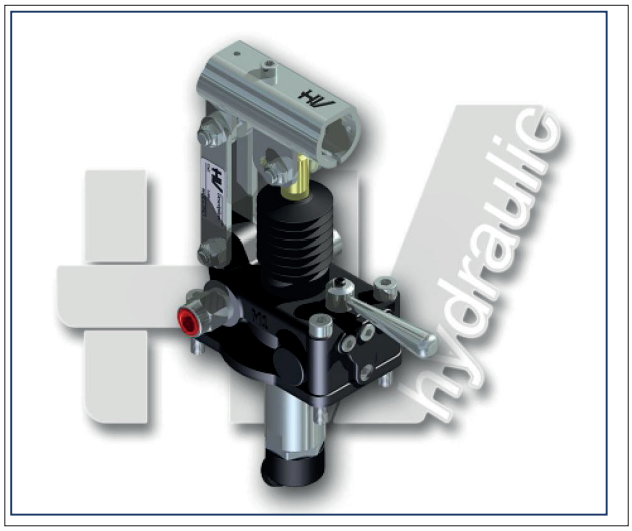
- Cast iron body
- White zinc plated support lever
- Lever connection Ø18
- White zinc plated external parts
- Standard colour blue

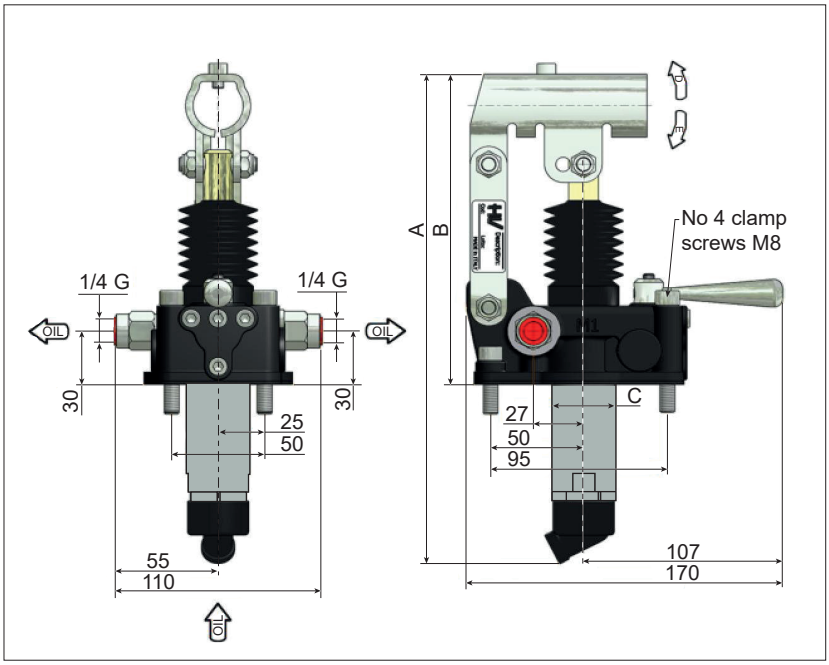
PMDVB Hand Pumps

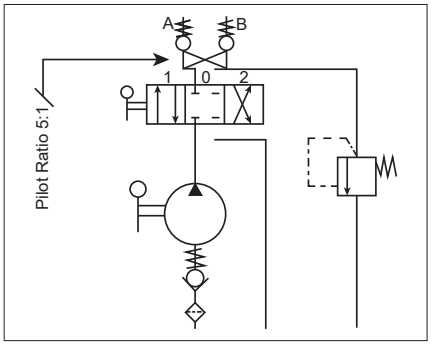
Double Acting Hand Pump For A Double Acting Cylinder For Fixing To Tank With 4/3 Diverter Closed Centre - With Dual Pilot Check Valve With Brakes - With Pressure Relief Valve

Stock No.	Description	Max. Pressure Bar	Displacement cm³	Weight Kg	List Price
PMDVB6	Hand Pump Double Acting 6CC with PO Checks	500	6	3.5	$ 700.00
PMDVB12	Hand Pump Double Acting 12CC with PO Checks	380	12	3.5	$ 700.00
PMDVB25	Hand Pump Double Acting 25CC with PO Checks	350	25	3.5	$ 700.00
PMDVB45	Hand Pump Double Acting 45CC with PO Checks	280	45	3.5	$ 700.00









Displacement cm³	A mm	B mm	C mm	D °	E °
6	253	166	34	26	31
12	253	166	34	26	31
25	273	172	34	30	30
45	283	172	40	45	33

Specifications:

- Cast iron body
- Piston treated with Niploy
- White zinc plated support lever
- Lever connection Ø27
- White zinc plated external parts
- Standard colour black
- Oil tank mounting kit included
- With hydraulic brakes to operate under 50 bar pressure
- Pressure relief valve standard setting: 100 bar

ME Mini Power Packs

ME

- Smallest overall dimensions
- DC motors up to 800 W
- Pump displacement up to 1.50 cm3 (0.09 in3)
- Pressures up to 250 bar (3625 psi)

Oil Sistem ME Power Packs

Stock No.	Description	Type of Control	Voltage	Power	Tank Capacity	List Price
MEC67M53TCL4S67	Pump/Motor & Tank	P & T Ports	12 VDC	800 W	1 Litre	$ 900.00
ME947M53TCL4S67			24 VDC			$ 900.00
MEC67M53ECL4S267	Pump/Motor & Tank Single Acting Control	S/A Solenoid	12 VDC	800 W	1 Litre	$ 1003.00
MEC94M53ECL4S267			24 VDC			$ 1003.00
MEC67M53MCL4S267	Pump/Motor & Tank Single Acting Control	S/A Manual	12 VDC	800 W	1 Litre	$ 1003.00
MEC94M53MCL4S267			24 VDC			$ 1003.00
MEC67M53V47L4S267	Pump/Motor & Tank Double Acting Control	2 Pos. D/A Solenoid	12 VDC	800 W	1 Litre	$ 1113.00
MEC94M53V47L4S267			24 VDC			$ 1113.00
MEC67M53V55L4S267	Pump/Motor & Tank Double Acting Control	3 Pos. D/A Solenoid	12 VDC	800 W	1 Litre	$ 1265.00
MEC94M53V55L4S267			24 VDC			$ 1265.00

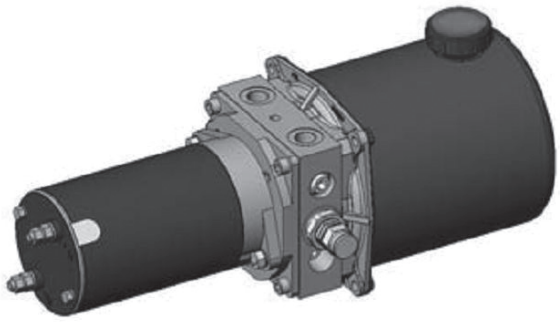
Oil Sistem ME Tank Options

Stock No.	Description	Tank Capacity	Shape	Dimensions mm			Add to List Price
				L	W	H	
X3976SE299	Tank - Steel S266 Horizontal	0.5 Litres	●	120	99	99	-
X3976SE300	Tank - Steel S267 Horizontal	1.0 Litres	●	184	99	99	-
X3976SE305	Tank - Plastic S272 Horizontal	2.5 Litres	■	240	134	134	-
X3976SE306	Tank - Plastic S273 Vertical	1.0 Litres	■	135	134	134	-
X3976SE307	Tank - Plastic S274 Vertical	1.8 Litres	■	170	134	134	-
X3976SE308	Tank - Plastic S275 Vertical	2.5 Litres	■	240	134	134	-

Oil Sistem Power Pack Optional Extras

Stock No.	Description	To Suit	List Price
DCE1097	Single Acting Cord Set (3.0 Mtrs Long)	ME/EC	$ 147.00
DCE1098	Double Acting Cord Set (3.0 Mtrs Long)	ME/V47	$ 153.00
DCE1099	Double Acting Cord Set (3.0 Mtrs Long)	ME/V55	$ 161.00
V388535000	PMC10 1cc Hand Pump (Cavity)	All Units	$ 148.00
G386021010	N22 Hand Pump 10cc (Manifold)	All Units	$ 301.00
G368002020	N03 Cetop 3 Parallel Manifold	All Units	$ 70.00
G386009010	N11 Cetop 3 Series Manifold	All Units	$ 77.00
G386094010	N95 Cetop 2 Parallel Manifold	All Units	$ 90.00
G386211B10	N211 Cetop 3 Parallel Manifold with PO Checks	All Units	$ 186.00

MR Mini Reversible Power Packs



MR

- Ports - 1/4” BSPP
- Pumps from 0.18 to 1.5 cm3/rev

Oil Sistem MR Power Packs

Stock No.	Description	Type of Control	Voltage	Power	Tank Capacity	List Price
MRC2605YR1S295	Pump/Motor & Tank Reversible	P1 & P2 Ports c/w PO Check	12 VDC	150 W	1 Litre	$ 990.00
MRC2705YR1S295			24 VDC			$ 990.00
MRC4005ZR2S267	Pump/Motor & Tank Reversible	P1 & P2 Ports c/w PO Check	12 VDC	500 W	1 Litre	$ 1023.00
MRC4105ZR2S267			24 VDC			$ 1023.00
MRC6705ZR3S267	Pump/Motor & Tank Reversible	P1 & P2 Ports c/w PO Check	12 VDC	800 W	1 Litre	$ 1023.00
MRC9405ZR3S267			24 VDC			$ 1023.00

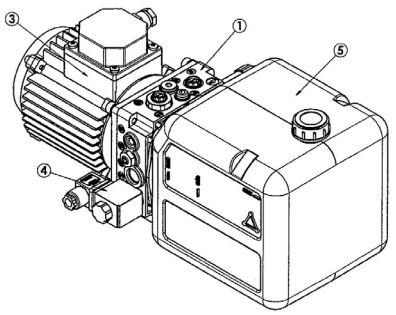
Oil Sistem MR Tank Options

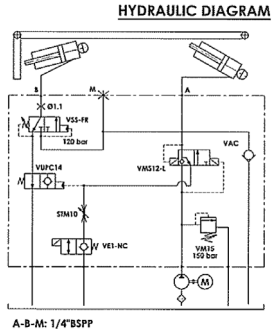
Stock No.	Description	Tank Capacity	Shape	Dimensions mm			Add to List Price
				L	W	H	
X3976SE299	Tank - Steel S266 Horizontal	0.5 Litres	●	120	99	99	-
X3976SE300	Tank - Steel S267 Horizontal	1.0 Litres	●	184	99	99	-
X3976SE328	Tank - Steel S294 Vertical	0.5 Litres	●	120	99	99	-
X3976SE329	Tank - Steel S295 Vertical	1.0 Litres	●	184	99	99	-

Oil Sistem MR Pump Options

Stock No.	Description	Type	Add to List Price
C1641R0000	Pump Grp 05 - 0.18cc Bi Directional	R0	-
C1641R1000	Pump Grp 05 - 0.24cc Bi Directional	R1	-
C1641R2000	Pump Grp 05 - 0.49cc Bi Directional	R2	-
C1641R3000	Pump Grp 05 - 0.62cc Bi Directional	R3	-
C1641R4000	Pump Grp 05 - 0.87cc Bi Directional	R4	-
C1641R5000	Pump Grp 05 - 0.99cc Bi Directional	R5	-

DL Dock Leveller Power Pack



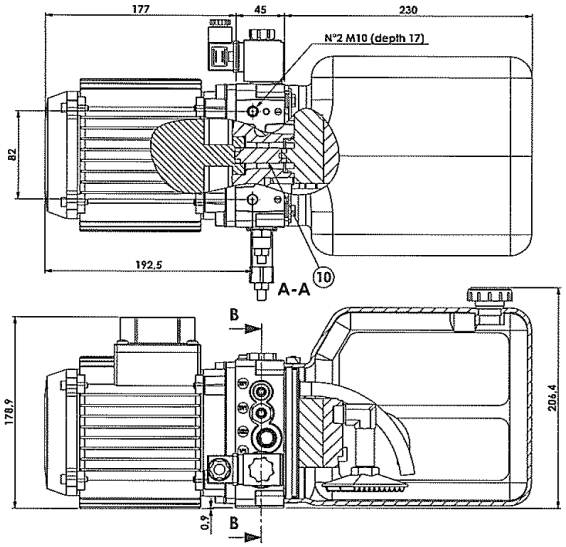


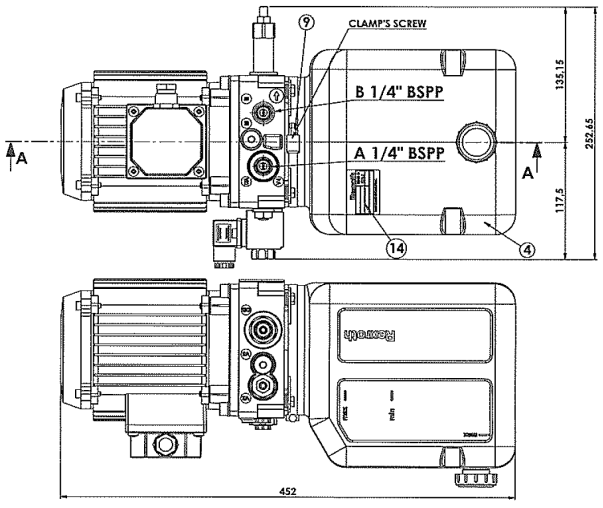
Oil Sistem DL Power Packs

Stock No.	Description	Type of Control	Voltage	Power	Tank Capacity	List Price
	K3725M6712S343OH	Dock Leveller	240 VAC	1.1 KW	4 Litre	$ 1520.00
52833120076	K27256712S343OH	Dock Leveller	415 VAC	1.1 KW		$ 1320.00
	K3826M6714S415OH	Dock Leveller	240 VAC	1.5 KW	6.5 Litre	$ 1720.00
	K28266714S415OH	Dock Leveller	415 VAC	1.5 KW		$ 1520.00
	K3827M15S417OH	Dock Leveller	240 VAC	2.2 KW	12 Litre	$ 1920.00
	K382715S417OH	Dock Leveller	415 VAC	2.2KW		$ 1720.00

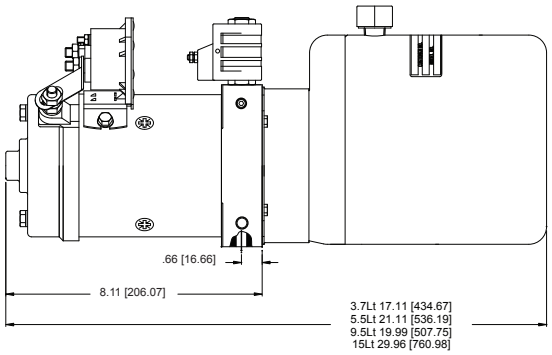
Oil Sistem DL Tank Options

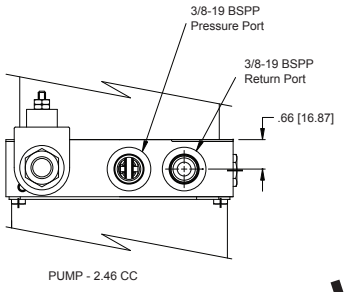
Stock No.	Description	Tank Capacity	Shape	Dimensions mm			Add to List Price
				L	W	H	
K3976SE439	Tank - S413 Plastic	5.5 Litres		310	130	185	$ 10.00
K3976SE441	Tank - S415 Plastic	6.5 Litres		335	130	185	$ 20.00
K3976SE443	Tank - S417 Plastic	12 Litres		495	130	185	$ 40.00





DCA Power Packs





Made in USA

MTE DC Power Packs - Aluminium Manifold

Stock No.	Description	Type of Control	Voltage	Power	Tank Capacity	List Price
DC31233A	Pump/Motor & Tank	None	12 VDC	1.6 Kw	3.8 Litre	$ 750.00
DC32433A			24 VDC	2.2 Kw		$ 750.00
DC41233A	Pump/Motor & Tank Single Acting Control	S/A Solenoid	12 VDC	1.6 Kw	3.8 Litre	$ 800.00
DC42433A			24 VDC	2.2 Kw		$ 800.00
DC51233A	Pump/Motor & Tank Single Acting Control	S/A Manual	12 VDC	1.6 Kw	3.8 Litre	$ 850.00
DC52433A			24 VDC	2.2 Kw		$ 850.00
DC61233A	Pump/Motor & Tank P & T (Manifold)	None	12 VDC	1.6 Kw	3.8 Litre	$ 750.00
DC62433A			24 VDC	2.2 Kw		$ 750.00
DC61233A4W2P	Pump/Motor & Tank Double Acting Control	2 Pos. D/A Solenoid	12 VDC	1.6 Kw	3.8 Litre	$ 1200.00
DC62433A4W2P			24 VDC	2.2 Kw		$ 1200.00
DC61233A4W3P	Pump/Motor & Tank Double Acting Control	3 Pos. D/A Solenoid	12 VDC	1.6 Kw	3.8 Litre	$ 1300.00
DC62433A4W3P			24 VDC	2.2 Kw		$ 1300.00

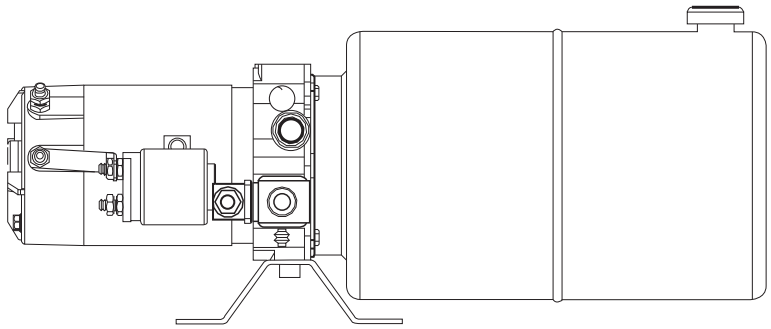
MTE Power Pack Tank Options

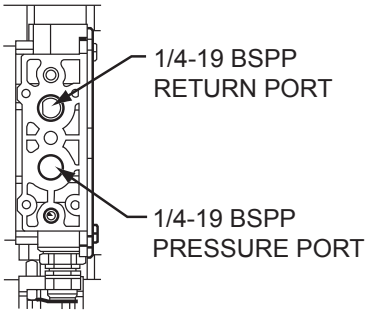
Stock No.	Description	Tank Capacity	Shape	Dimensions mm			Add to List Price
				L	W	H	
12401212	Cylindrical Reservoir	3.80 Litres	●	229	168	-	-
12401213	Cylindrical Reservoir	4.75 Litres	●	342	168	-	$ 30.00
12401195	Rectangular Reservoir	9.50 Litres	▬	337	203	203	$ 120.00
12401196	Rectangular Reservoir	13 Litres	▬	454	203	203	$ 140.00

MTE Power Pack Optional Extras

Stock No.	Description	To Suit	List Price
27002106	DC2046 - 1 US GPM Flow Control Insert	All Units	$ 73.00
27002096	DC2056 - 2 US GPM Flow Control Insert	All Units	$ 73.00
DC1097	Single Acting Cord Set (3.0 Mtrs Long)	DC41233/42433	$ 147.00
DC1098	Double Acting Cord Set (3.0 Mtrs Long)	DC612334W2P/DC624334W2P	$ 153.00
DC1099	Double Acting Cord Set (3.0 Mtrs Long)	DC612334W2P/DC624334W2P	$ 161.00
4W2P	2 Pos. Double Acting Solenoid Valve	DC61233/DC62433	$ 450.00
4W3P	3 Pos. Double Acting Solenoid Valve	DC61233/DC62433	$ 550.00
DCKADA	Manifold Adaptor	DC61233/DC62433-K	$ 76.00
G386002020	No 3 Cetop 3 Parallel Manifold	DC6**33 with DCKADA	$ 70.00
F451B20C	Hand Pump 10cc Manifold	DC6**33 with DCKADA	$ 264.00

DCE Power Packs





PUMP - 2.6 CC

Oil Sistem DCE Power Packs

Stock No.	Description	Type of Control	Voltage	Power	Tank Capacity	List Price
DCE2123	Pump & Motor	None	12 VDC	1.6 Kw	None	$ 900.00
DCE2243			24 VDC	2.2 Kw		$ 900.00
DCE31233	Pump/Motor & Tank	None	12 VDC	1.6 Kw	4.0 Litre	$ 905.00
DCE32433			24 VDC	2.2 Kw		$ 905.00
DCE41233	Pump/Motor & Tank Single Acting Control	S/A Solenoid	12 VDC	1.6 Kw	4.0 Litre	$ 995.00
DCE42433			24 VDC	2.2 Kw		$ 995.00
DCE51233	Pump/Motor & Tank Single Acting Control	S/A Manual	12 VDC	1.6 Kw	4.0 Litre	$ 995.00
DCE52433			24 VDC	2.2 Kw		$ 995.00
DCE612334W2P	Pump/Motor & Tank Double Acting Control	2 Pos. D/A Solenoid	12 VDC	1.6 Kw	4.0 Litre	$ 1179.00
DCE624334W2P			24 VDC	2.2 Kw		$ 1179.00
DCE612334W3P	Pump/Motor & Tank Double Acting Control	3 Pos. D/A Solenoid	12 VDC	1.6 Kw	4.0 Litre	$ 1340.00
DCE624334W3P			24 VDC	2.2 Kw		$ 1340.00
DCE81233	Pump/Motor & Tank Double Acting Control	3 Pos. D/A Manual	12 VDC	1.6 Kw	4.0 Litre	$ 1340.00
DCE82433			24 VDC	2.2 Kw		$ 1340.00

Oil Sistem Power Pack Tank Options

Stock No.	Description	Tank Capacity	Shape	Dimensions mm			Add to List Price
				L	W	H	
K3976SE005	Cylindrical Reservoir	4.0 Litres	●	219	190	190	-
K3976SE041	Cylindrical Reservoir	5.4 Litres	●	271	190	190	$ 30.00
K3976SE172	Cylindrical Reservoir	9.6 Litres	●	453	190	190	$ 90.00
K3976SE117	Cylindrical Reservoir	15.0 Litres	●	420	257	257	$ 120.00

Oil Sistem Power Pack Optional Extras

Stock No.	Description	To Suit	List Price
V38951900A	STF14P - 1 LPM Flow Control Insert	All Units	$ 42.00
V38951900B	STF14P - 2 LPM Flow Control Insert	All Units	$ 42.00
V38951900C	STF14P - 3 LPM Flow Control Insert	All Units	$ 42.00
DCE1097	Single Acting Cord Set (3.0 Mtrs Long)	DCE41233/42433	$ 147.00
DCE1098	Double Acting Cord Set (3.0 Mtrs Long)	DCE612334W2P/DCE624334W2P	$ 153.00
DCE1099	Double Acting Cord Set (3.0 Mtrs Long)	DCE612334W2P/DCE624334W2P	$ 161.00
V388535000	PMC 10 1cc Hand Pump (cavity)	All Units	$ 148.00
G386021010	N22 6cc Hand Pump (manifold)	All Units	$ 301.00

CHME AC Pre-Assembled Units

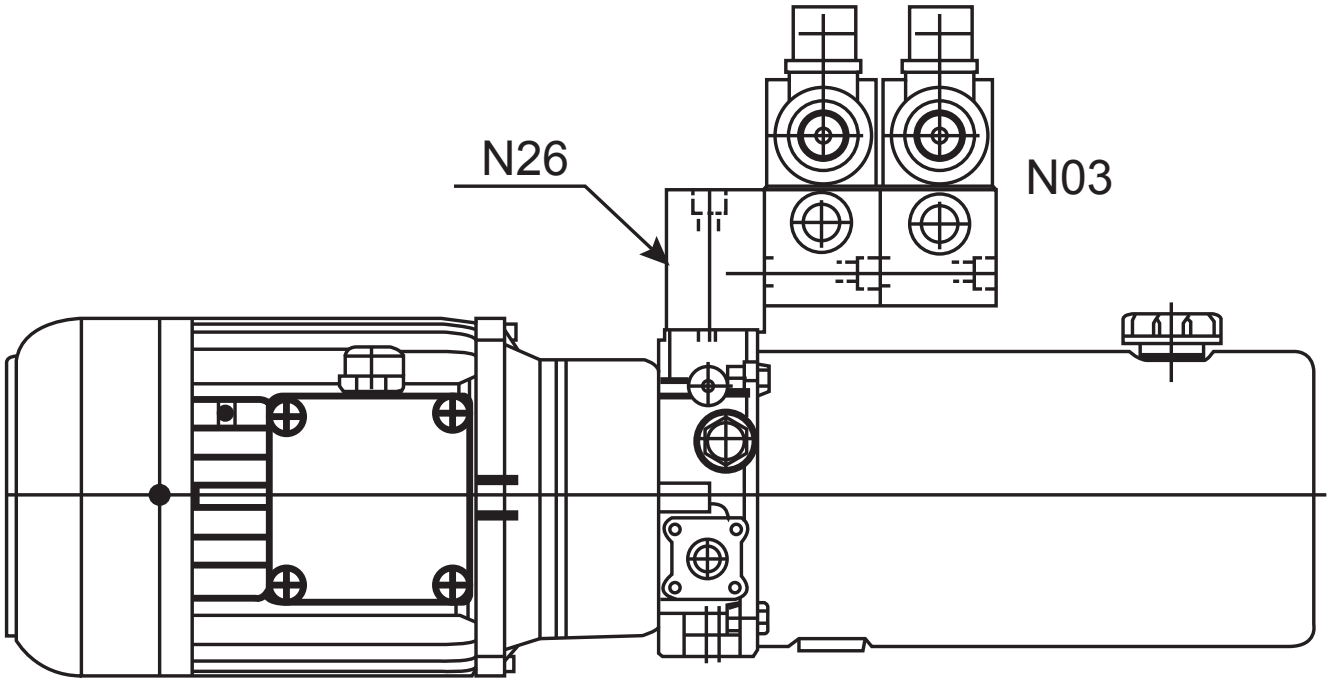
CHME Series 240 Volt AC Single Phase Pre-Assembled Units

Stock No.	Description	Voltage	List Price with Tank Capacity			
			0.4 Ltr	0.7 Ltr	1.7 Ltr	3.7 Ltr
CHME14012	0.12Kw Power Unit	240 VAC	$ 885.00	$ 892.00	$ 913.00	$ 941.00
CHME14018	0.18Kw Power Unit	240 VAC	$ 926.00	$ 933.00	$ 954.00	$ 982.00
CHME14025	0.25Kw Power Unit	240 VAC	$ 964.00	$ 971.00	$ 992.00	-
CHME14037	0.37Kw Power Unit	240 VAC	$ 1015.00	$ 1022.00	$ 1043.00	-

CHME Series 415 Volt AC Three Phase Pre-Assembled Units

Stock No.	Description	Voltage	List Price with Tank Capacity			
			0.4 Ltr	0.7 Ltr	1.7 Ltr	3.7 Ltr
CHME34012	0.12Kw Power Unit	415 VAC	$ 785.00	$ 792.00	$ 813.00	$ 841.00
CHME34018	0.18Kw Power Unit	415 VAC	$ 791.00	$ 798.00	$ 819.00	$ 847.00
CHME34025	0.25Kw Power Unit	415 VAC	$ 815.00	$ 822.00	$ 850.00	-
CHME34037	0.37Kw Power Unit	415 VAC	$ 826.00	$ 833.00	$ 861.00	-

Pump Options			Pump Options			Pump Options			Pump Options		
0.12Kw Motor 1440 4P			0.18Kw Motor 1440 4P			0.25Kw Motor 1440 4P			0.37Kw Motor 1440 4P		
cc/rev	lpm	bar	cc/rev	lpm	bar	cc/rev	lpm	bar	cc/rev	lpm	bar
0.18	0.25	200	0.18	0.25	200	0.18	0.25	200	-	-	-
0.24	0.35	200	0.24	0.35	200	0.24	0.35	200	-	-	-
0.49	0.70	102	0.49	0.70	154	0.49	0.70	200	0.49	0.70	200
0.62	0.90	80	0.62	0.90	121	0.62	0.90	166	0.62	0.90	200



BC Micro Pre-Assembled Units

BC Series 240 Volt AC Pre-Assembled Power Units

Stock No.	Description	Voltage	Flow Rate	List Price
BC14055	0.55Kw Power Unit	240 Volt AC Single Phase	Refer to chart	$ 1736.00
BC14075	0.75Kw Power Unit			$ 1780.00
BC14110	1.10Kw Power Unit			$ 1846.00
BC14150	1.50Kw Power Unit			$ 1977.00
BC12220	2.20Kw Power Unit **			$ 2033.00

BC Series 415 Volt AC Pre-Assembled Power Units

Stock No.	Description	Voltage	Flow Rate	List Price
BC34055	0.55Kw Power Unit	415 Volt AC Three Phase	Refer to chart	$ 1604.00
BC34075	0.75Kw Power Unit			$ 1670.00
BC34110	1.10Kw Power Unit			$ 1703.00
BC34150	1.50Kw Power Unit			$ 1736.00
BC32220	2.20Kw Power Unit **			$ 1780.00

Pump Options 0.55Kw Motor 1440 4P		
cc/rev	lpm	bar
0.89	1.28	219
1.18	1.69	165
1.60	2.30	121
2.00	2.88	97
2.50	3.60	78
3.20	4.60	60
3.70	5.30	53
4.20	6.00	46
5.00	7.20	39
6.30	9.00	31
7.76	11.10	25
9.78	14.00	20

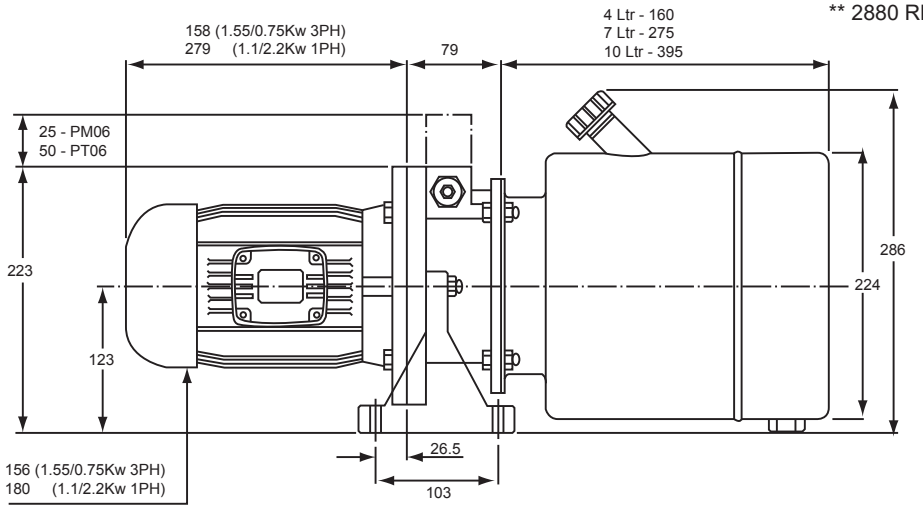
Pump Options 0.75Kw Motor 1440 4P		
cc/rev	lpm	bar
-	-	-
1.18	1.69	226
1.60	2.30	166
2.00	2.88	132
2.50	3.60	106
3.20	4.60	83
3.70	5.30	72
4.20	6.00	63
5.00	7.20	53
6.30	9.00	42
7.76	11.10	34
9.78	14.00	27

Pump Options 1.1Kw Motor 1440 4P		
cc/rev	lpm	bar
-	-	-
-	-	-
1.60	2.30	240
2.00	2.88	194
2.50	3.60	155
3.20	4.60	121
3.70	5.30	105
4.20	6.00	93
5.00	7.20	78
6.30	9.00	62
7.76	11.10	50
9.78	14.00	40

Pump Options 1.5Kw Motor 1440 4P		
cc/rev	lpm	bar
-	-	-
-	-	-
-	-	-
2.00	2.88	240
2.50	3.60	212
3.20	4.60	166
3.70	5.30	144
4.20	6.00	127
5.00	7.20	106
6.30	9.00	85
7.76	11.10	68
9.78	14.00	54

Pump Options 2.2Kw Motor 2880 2P		
cc/rev	lpm	bar
0.89	2.56	240
1.18	2.88	240
1.60	4.60	240
2.00	5.76	194
2.50	7.20	155
3.20	9.20	121
3.70	11.60	96
4.20	12.00	93
5.00	14.40	78
6.30	18.00	62
-	-	-
-	-	-

** 2880 RPM 2 POLE MOTOR



CHK Vertical Pre-Assembled Units

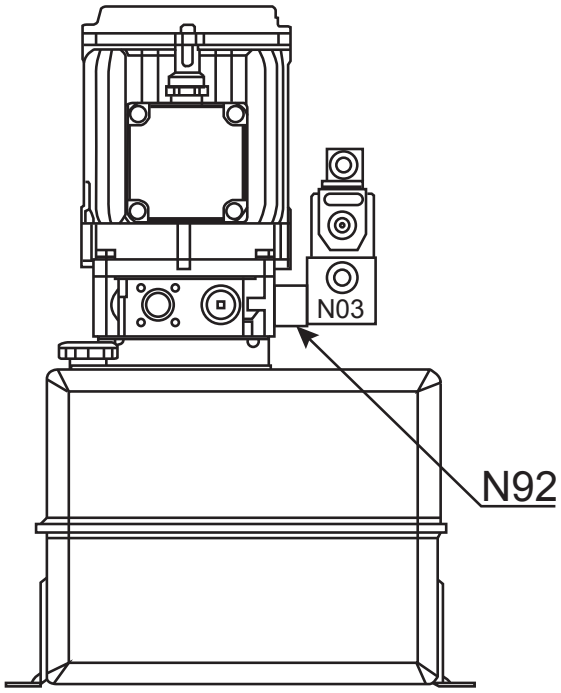
CHK Series 240 Volt AC Single Phase Pre-Assembled P & T Power Units

Stock No.	Description	Voltage	List Price with Tank Capacity		
			4 Ltr	11 Ltr	16 Ltr
CHK14018V	0.18Kw Power Unit	240 VAC	$ 1520.00	$ 1580.00	$ 1675.00
CHK14025V	0.25Kw Power Unit	240 VAC	$ 1550.00	$ 1635.00	$ 1730.00
CHK14037V	0.37Kw Power Unit	240 VAC	$ 1640.00	$ 1705.00	$ 1795.00
CHK14055V	0.55Kw Power Unit	240 VAC	-	$ 1780.00	$ 1875.00
CHK14075V	0.75Kw Power Unit	240 VAC	-	$ 1805.00	$ 1895.00
CHK14110V	1.10Kw Power Unit	240 VAC	-	$ 1935.00	$ 2025.00
CHK14150V	1.50Kw Power Unit	240 VAC	-	$ 2000.00	$ 2095.00
CHK14220V	2.20Kw Power Unit	240 VAC	-	$ 2300.00	$ 2395.00

CHK Series 415 Volt AC Three Phase Pre-Assembled Power Units

Stock No.	Description	Voltage	List Price with Tank Capacity		
			4 Ltr	11 Ltr	16 Ltr
CHK34018V	0.18Kw Power Unit	415 VAC	$ 1360.00	$ 1425.00	$ 1515.00
CHK34025V	0.25Kw Power Unit	415 VAC	$ 1375.00	$ 1440.00	$ 1535.00
CHK34037V	0.37Kw Power Unit	415 VAC	$ 1405.00	$ 1465.00	$ 1560.00
CHK34055V	0.55Kw Power Unit	415 VAC	-	$ 1525.00	$ 1620.00
CHK34075V	0.75Kw Power Unit	415 VAC	-	$ 1550.00	$ 1645.00
CHK34110V	1.10Kw Power Unit	415 VAC	-	$ 1680.00	$ 1775.00
CHK34150V	1.50Kw Power Unit	415 VAC	-	$ 1745.00	$ 1840.00
CHK34220V	2.20Kw Power Unit	415 VAC	-	$ 2045.00	$ 2140.00

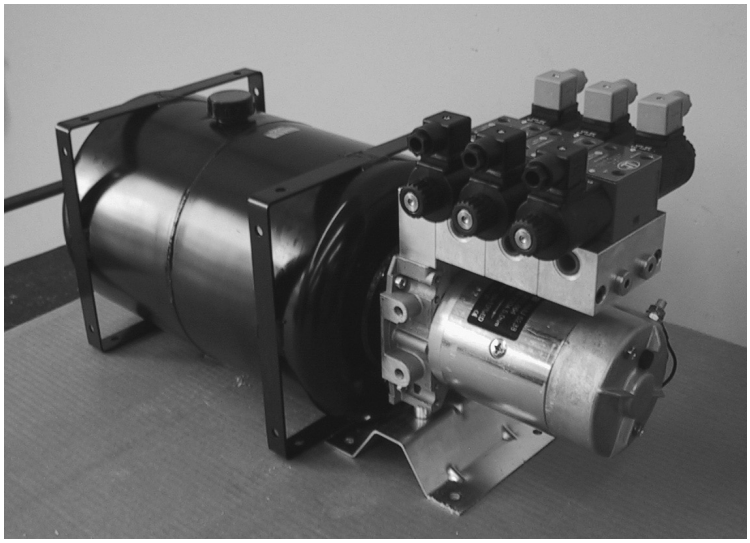
Note: Refer chart on next page for flow/ pressure available for Kw.



K Series Pre-Assembled Units

Pump Options			Pump Options			Pump Options			Pump Options		
0.18Kw Motor 1440 4P			0.25Kw Motor 1440 4P			0.37Kw Motor 1440 4P			0.55Kw Motor 1440 4P		
cc/rev	lpm	bar	cc/rev	lpm	bar	cc/rev	lpm	bar	cc/rev	lpm	bar
0.84	1.2	76	0.84	1.2	106	0.84	1.2	157	0.84	1.2	233
1.1	1.58	58	1.1	1.58	80	1.1	1.58	119	1.1	1.58	177
1.6	2.3	40	1.6	2.3	55	1.6	2.3	82	1.6	2.3	121
2.1	3.02	30	2.1	3.02	42	2.1	3.02	62	2.1	3.02	92
-	-	-	2.6	3.7	34	2.6	3.7	51	2.6	3.7	75
-	-	-	-	-	-	3.2	4.6	41	3.2	4.6	61
-	-	-	-	-	-	-	-	-	3.7	5.3	52
-	-	-	-	-	-	-	-	-	4.2	6.04	46
-	-	-	-	-	-	-	-	-	4.8	6.9	40
-	-	-	-	-	-	-	-	-	5.8	8.3	33

Pump Options			Pump Options			Pump Options			Pump Options		
0.75Kw Motor 1440 4P			1.10Kw Motor 1440 4P			1.50Kw Motor 1440 4P			2.20Kw Motor 1440 4P		
cc/rev	lpm	bar	cc/rev	lpm	bar	cc/rev	lpm	bar	cc/rev	lpm	bar
0.84	1.2	240	-	-	-	-	-	-	-	-	-
1.1	1.58	240	-	-	-	-	-	-	-	-	-
1.6	2.3	166	1.6	2.3	240	-	-	-	-	-	-
2.1	3.02	126	2.1	3.02	185	-	-	-	-	-	-
2.6	3.7	103	2.6	3.7	151	2.6	3.7	206	-	-	-
3.2	4.6	83	3.2	4.6	121	3.2	4.6	166	-	-	-
3.7	5.3	72	3.7	5.3	105	3.7	5.3	144	3.7	5.3	211
4.2	6.04	63	4.2	6.04	93	4.2	6.04	126	4.2	6.04	185
4.8	6.9	55	4.8	69	81	4.8	6.9	110	4.8	6.9	162
5.8	8.3	46	5.8	8.3	67	5.8	8.3	92	5.8	8.3	135
6.5	9.3	41	6.5	9.3	60	6.5	9.3	82	6.5	9.3	120
-	-	-	7.9	11.3	49	7.9	11.3	67	7.9	11.3	99
-	-	-	9.8	14.1	39	9.8	14.1	54	9.8	14.1	79



CHK Horizontal Pre-Assembled Units

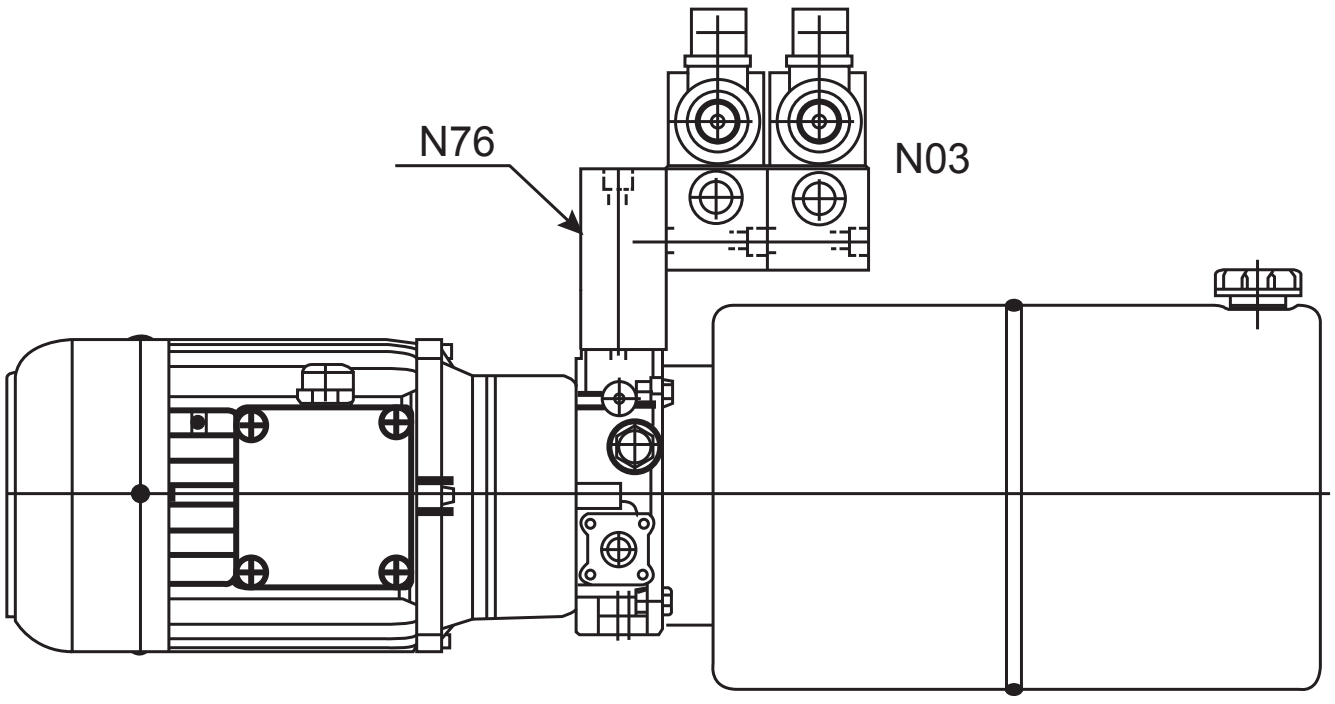
CHK Series 240 Volt AC Single Phase Pre-Assembled Power Units

Stock No.	Description	Voltage	List Price with Tank Capacity					
			0.7 Ltr	1.2 Ltr	4.0 Ltr	5.4 Ltr	9.6 Ltr	15 Ltr
CHK14018	0.18Kw Power Unit	240 VAC	$ 1395.00	$ 1400.00	$ 1425.00	$ 1495.00	$ 1625.00	$ 1720.00
CHK14025	0.25Kw Power Unit	240 VAC	$ 1450.00	$ 1455.00	$ 1480.00	$ 1550.00	$ 1745.00	$ 1775.00
CHK14037	0.37Kw Power Unit	240 VAC	$ 1520.00	$ 1525.00	$ 1545.00	$ 1615.00	$ 1775.00	$ 1840.00
CHK14055	0.55Kw Power Unit	240 VAC	-	-	$ 1625.00	$ 1695.00	$ 1840.00	$ 1920.00
CHK14075	0.75Kw Power Unit	240 VAC	-	-	$ 1645.00	$ 1715.00	$ 1850.00	$ 1940.00
CHK14110	1.10Kw Power Unit	240 VAC	-	-	$ 1775.00	$ 1845.00	$ 1980.00	$ 2070.00
CHK14150	1.50Kw Power Unit	240 VAC	-	-	$ 1845.00	$ 1915.00	$ 2140.00	$ 2240.00
CHK14220	2.20Kw Power Unit	240 VAC	-	-	$ 2145.00	$ 2215.00	$ 2340.00	$ 2440.00

CHK Series 415 Volt AC Three Phase Pre-Assembled Power Units

Stock No.	Description	Voltage	List Price with Tank Capacity					
			0.7 Ltr	1.2 Ltr	4.0 Ltr	5.4 Ltr	9.6 Ltr	15 Ltr
CHK34018	0.18Kw Power Unit	415 VAC	$ 1235.00	$ 1240.00	$ 1265.00	$ 1335.00	$ 1465.00	$ 1560.00
CHK34025	0.25Kw Power Unit	415 VAC	$ 1250.00	$ 1260.00	$ 1285.00	$ 1350.00	$ 1485.00	$ 1580.00
CHK34037	0.37Kw Power Unit	415 VAC	$ 1280.00	$ 1285.00	$ 1310.00	$ 1380.00	$ 1510.00	$ 1605.00
CHK34055	0.55Kw Power Unit	415 VAC	-	-	$ 1370.00	$ 1440.00	$ 1570.00	$ 1665.00
CHK34075	0.75Kw Power Unit	415 VAC	-	-	$ 1395.00	$ 1460.00	$ 1590.00	$ 1685.00
CHK34110	1.10Kw Power Unit	415 VAC	-	-	$ 1525.00	$ 1590.00	$ 1725.00	$ 1815.00
CHK34150	1.50Kw Power Unit	415 VAC	-	-	$ 1590.00	$ 1660.00	$ 1790.00	$ 1885.00
CHK34220	2.20Kw Power Unit	415 VAC	-	-	$ 1890.00	$ 1955.00	$ 2090.00	$ 2185.00

Note: Refer chart on next page for flow/ pressure available for Kw.



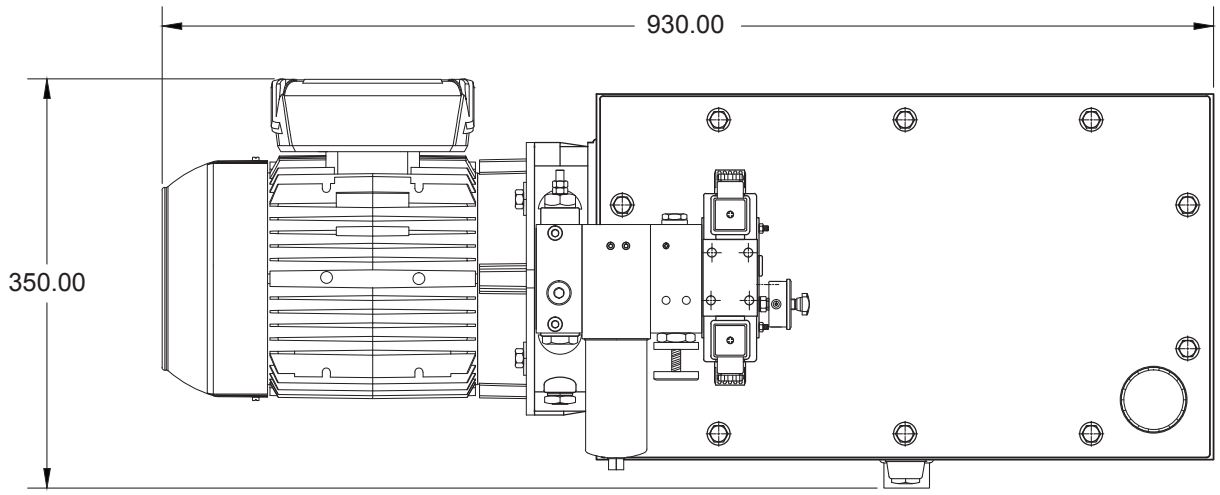
CHZ Horizontal Pre-Assembled Units

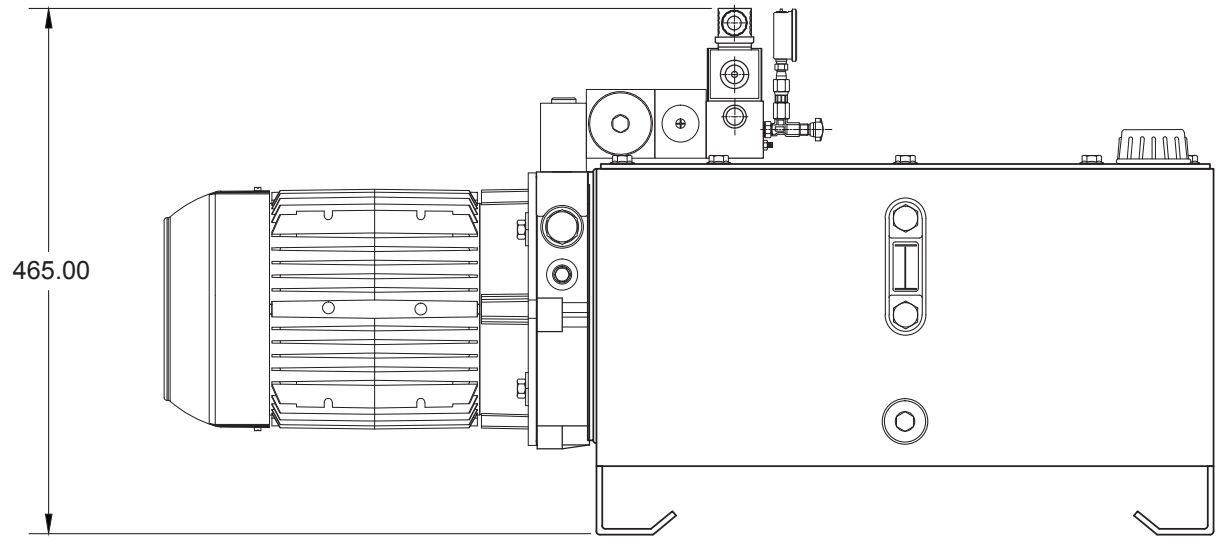
CHZ Series 240 Volt AC Single Phase Pre-Assembled Power Units

Stock No.	Description	Voltage	List Price with Tank Capacity		
			12 Ltr	23 Ltr	45 Ltr
CHZ14220	2.20Kw Power Unit	240 VAC	$ 2720.00	$ 2720.00	$ 2875.00
CHZ14370	3.70Kw Power Unit	240 VAC	$ 3220.00	$ 3220.00	$ 3320.00

CHZ Series 415 Volt AC Three Phase Pre-Assembled Power Units

Stock No.	Description	Voltage	List Price with Tank Capacity		
			12 Ltr	23 Ltr	45 Ltr
CHZ14220	2.20Kw Power Unit	415 VAC	$ 2151.00	$ 2151.00	$ 2400.00
CHZ34300	3.00Kw Power Unit	415 VAC	$ 2250.00	$ 2250.00	$ 2495.00
CHZ34400	4.00Kw Power Unit	415 VAC	$ 2430.00	$ 2430.00	$ 2675.00
CHZ34550	5.50Kw Power Unit	415 VAC	$ 2690.00	$ 2690.00	$ 2940.00
CHZ34750	7.50Kw Power Unit	415 VAC	$ 2860.00	$ 2860.00	$ 3110.00
CHZ34920	9.20Kw Power Unit	415 VAC	$ 3138.00	$ 3138.00	$ 3388.00





Micro Petrol/Diesel Power Units

CHZP Series Petrol Power Units - Honda Engine Pre-Assembled Power Unis

Stock No.	Description	Option	Flow Rate	List Price
CHZP90	9 HP Power Unit GX270	Electric	Refer to Chart	$ 4436.00
CHZP13	13 HP Power Unit GX390			$ 4436.00
CHZP18	18 HP Power Unit Vanguard			$ 5200.00

Pump Options 9 HP Engine @ 3000 rpm			Pump Options 13 HP Engine @ 3000 rpm			Pump Options 18 HP Engine @ 3000 rpm		
cc/rev	lpm	bar	cc/rev	lpm	bar	cc/rev	lpm	bar
4.1	11	201	4.5	13	220	-	-	-
6	17	178	6	17	195	-	-	-
8.3	23	100	8.3	23	140	8.3	23	210
-	-	-	11	30	103	11	30	160
-	-	-	-	-	-	14	40	125

CHZD Series Diesel Power Units - Kohler Engine Pre-Assembled Power Units

Stock No.	Description	Option	Flow Rate	List Price
CHZD12	12 HP Power Unit KD500	Electric Start	Refer to Chart	$ 8680.00
CHZD18	18 HP Power Unit KD425			$ 12,000.00

Pump Options 12 HP Engine @ 2200 rpm			Pump Options 18 HP Engine @ 2200 rpm		
cc/rev	lpm	bar	cc/rev	lpm	bar
6	12	193	-	-	-
8.3	18	136	8.3	18	200
11	23	105	11	23	145
-	-	-	14	30	114

BC Micro Petrol/Diesel Power Units

BC Series Petrol Power Units - Honda Engine Pre-Assembled Power Unis

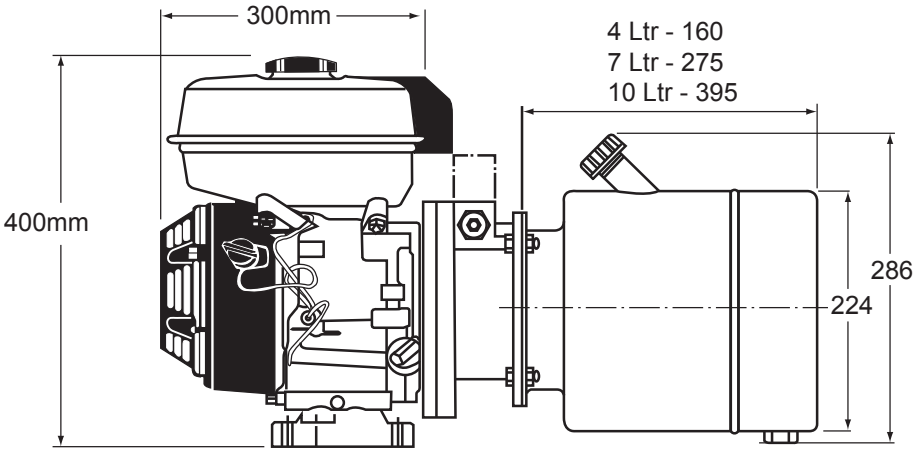
Stock No.	Description	Option	Flow Rate	List Price
BCP04	4 HP Power Unit GX120	Pull Start	Refer to Chart	$ 2600.00
BCP05	5 HP Power Unit GX160			$ 2800.00
BCP06	6.5 HP Power Unit GX200			$ 2900.00
BCPE06	6.5 HP Power Unit GX200	Electric Start	Refer to Chart	$ 3200.00

Pump Options 4 HP Engine @ 3600 rpm			Pump Options 5 HP Engine @ 3600 rpm			Pump Options 6.5 HP Engine @ 3600 rpm		
cc/rev	lpm	bar	cc/rev	lpm	bar	cc/rev	lpm	bar
1.6	5.3	203	2.1	7	214	2.7	9	191
2.1	7	155	2.5	8.3	180	3.2	10.6	161
2.5	8.3	130	2.7	9	167	3.7	12.3	139
2.7	9	120	3.2	10.6	141	4.2	14	123
3.2	10.6	101	3.7	12.3	122	-	-	-
3.7	12.3	88	4.2	14	107	-	-	-
4.2	14	77	-	-	-	-	-	-

BCD Series Diesel Power Units - Kohler Engine Pre-Assembled Power Units

Stock No.	Description	Option	Flow Rate	List Price
BCDE05	4.8 HP Power Unit KD225	Electric Start	Refer to Chart	$ 6500.00
BCDE06	6.7 HP Power Unit KD350			$ 7400.00

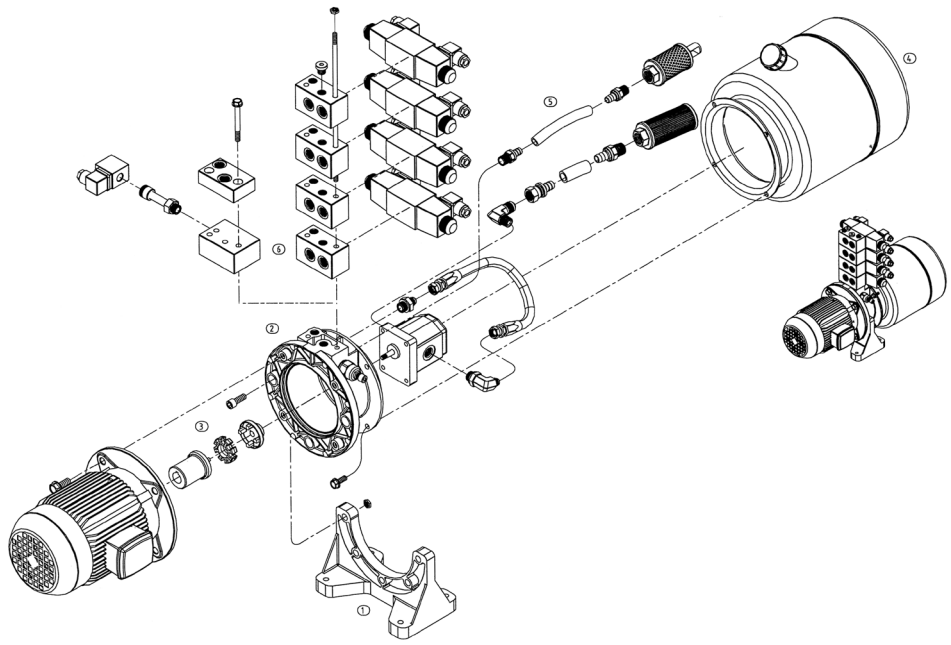
Pump Options 4.8 HP Engine @ 2400 rpm			Pump Options 6.7 HP Engine @ 2400 rpm		
cc/rev	lpm	bar	cc/rev	lpm	bar
2.1	4.8	206	2.7	6.2	210
2.5	5.7	173	3.2	7.3	177
2.7	6.2	160	3.7	8.4	153
3.2	7.3	135	4.2	9.6	135
3.7	8.4	117	4.8	11	118
4.2	9.6	103	5.0	11.4	113
4.8	11	90	5.8	13.2	98



BC Micro Power Units

BC Series AC Power Packs Components

Ref.	Stock No.	Description	Suits	List Price
1	P200	Foot Flange	All Units	$ 63.00
2	BC20V2U05	Bell Housing	Group 05 Pumps	$ 244.00
	BC20V2U1P	Bell Housing	Group 1 Pumps	$ 334.00
	GX160D80	Adaptor Plate	BC to GX120, 160, 200	$ 230.00
3	ND48C	Coupling Half	D80 Frame Motor	$ 18.00
	ND48D	Coupling Half	D90 Frame Motor	$ 18.00
	ND48P05GT	Coupling Half	Group 05 Pumps	$ 13.00
	ND48PU1P	Coupling Half	Group 1 Pumps	$ 15.00
	R42	Spider	All Couplings	$ 5.00
4	SC4224	Reservoir	4 Litre	$ 189.00
	SC7224	Reservoir	7 Litre	$ 253.00
	SC10224	Reservoir	10 Litre	$ 253.00
	SC30224	Reservoir	30 Litre	$ 575.00
	BCHOSKIT	Assembly Kit		$ 140.00
5	SF46A-38GO	Suction Strainer	3/8” BSPP	$ 32.00
	SF46B-12GO	Suction Strainer	1/2” BSPP	$ 32.00
	F01	Return Filter	3/8” BSPP	$ 35.00
6	PM06	Manifold Block - Motor End	CETOP 3 Interface - Parallel	$ 168.00
	PT06	Blind Manifold	c/w Gauge Port	$ 76.00
	PM	Through Porting Block - 3/4” U 2 Way	c/w Cartridge Valve Cavity	$ 146.00
	PC3MCRP	Manifold Block - Side	CETOP 3 Interface - Parallel	$ 75.00
	BCSPA	Spacer - 28mm	-	$ 20.00
	BCKADA	Manifold Adaptor	BC - K Series	$ 70.00



CP Standard Power Units

CP Series 240 Volt AC Single Phase Pre-Assembled Power Units with Group One Pump

Stock No.	Description	Voltage	List Price with Tank Capacity		
			CP10 - 10 Ltr	CP16 - 16 Ltr	CP25 - 25 Ltr
CP14055G1	0.55Kw Power Unit	240 VAC	$ 2300.00	$ 2350.00	$ 2525.00
CP14075G1	0.75Kw Power Unit	240 VAC	$ 2335.00	$ 2540.00	$ 2560.00
CP14110G1	1.10Kw Power Unit	240 VAC	$ 2460.00	$ 2565.00	$ 2690.00
CP14150G1	1.50Kw Power Unit	240 VAC	$ 2530.00	$ 2635.00	$ 2760.00
CP14220G1	2.20Kw Power Unit	240 VAC	-	-	$ 3030.00

CP Series 415 Volt AC Three Phase Pre-Assembled Power Units with Group One Pump

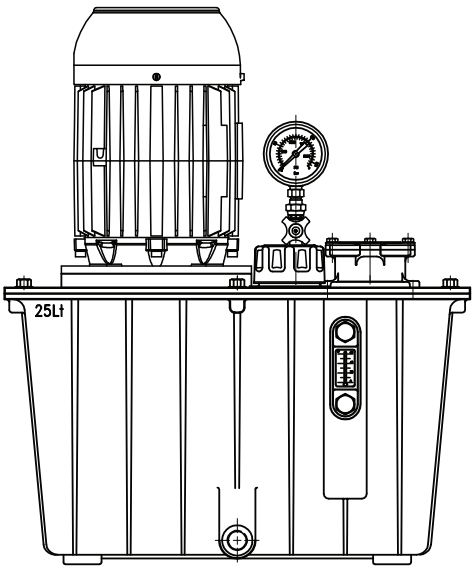
Stock No.	Description	Voltage	List Price with Tank Capacity		
			CP10 - 10 Ltr	CP16 - 16 Ltr	CP25 - 25 Ltr
CP34055G1	0.55 Kw Power Unit	415 VAC	$ 1995.00	$ 2095.00	$ 2220.00
CP34075G1	0.75 Kw Power Unit	415 VAC	$ 2035.00	$ 2135.00	$ 2260.00
CP34110G1	1.10 Kw Power Unit	415 VAC	$ 2095.00	$ 2195.00	$ 2320.00
CP34150G1	1.50 Kw Power Unit	415 VAC	$ 2195.00	$ 2305.00	$ 2425.00
CP34220G1	2.20 Kw Power Unit	415 VAC	-	-	$ 2580.00

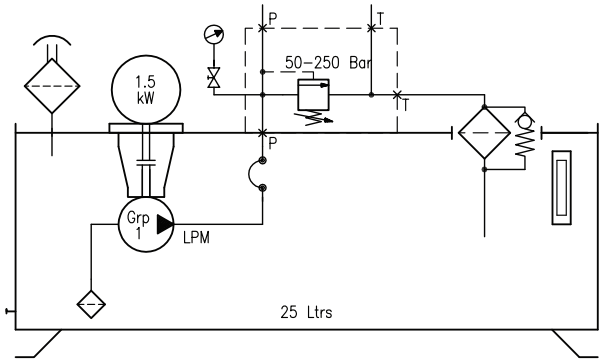
CP Series 240 Volt AC Single Phase Pre-Assembled Power Units with Group Two Pump

Stock No.	Description	Voltage	List Price with Tank Capacity
			CP25 - 25 Ltr
CP14220G2	2.20 Kw Power Unit	240 VAC	$ 3200.00

CP Series 415 Volt AC Three Phase Pre-Assembled Power Units with Group Two Pump

Stock No.	Description	Voltage	List Price with Tank Capacity
			CP25 - 25 Ltr
CP34220G2	2.20 Kw Power Unit	415 VAC	$ 2755.00
CP34300G2	3.00 Kw Power Unit	415 VAC	$ 2910.00
CP34400G2	4.00 Kw Power Unit	415 VAC	$ 3215.00





Typical Power Unit Schematic

**Lpm @ ** Bar 1.5 kW 240VAC/50Hz – 415VAC/50Hz

CHA Standard Power Units

CHA Series 240 Volt AC Single Phase Pre-Assembled Power Units with Group One Pump

Stock No.	Description	Voltage	List Price with Tank Capacity	
			CHA40 - 40 Ltr	CHA55 - 55 Ltr
CHA14055G1	0.55Kw Power Unit	240 VAC	$ 2855.00	$ 2970.00
CHA14075G1	0.75Kw Power Unit	240 VAC	$ 2895.00	$ 3010.00
CHA14110G1	1.10Kw Power Unit	240 VAC	$ 3030.00	$ 3145.00
CHA14150G1	1.50Kw Power Unit	240 VAC	$ 3150.00	$ 3215.00
CHA14220G1	2.20Kw Power Unit	240 VAC	$ 3380.00	$ 3500.00

CHA Series 415 Volt AC Three Phase Pre-Assembled Power Units with Group One Pump

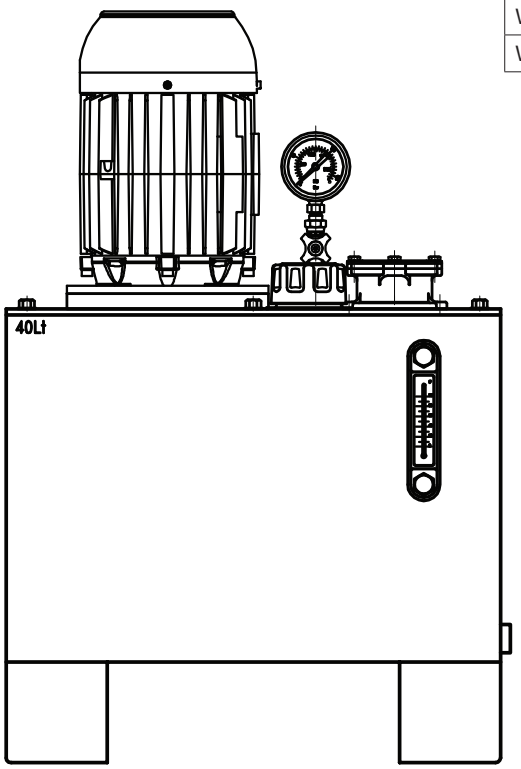
Stock No.	Description	Voltage	List Price with Tank Capacity	
			CHA40 - 40 Ltr	CHA55 - 55 Ltr
CHA34055G1	0.55Kw Power Unit	415 VAC	$ 2540.00	$ 2655.00
CHA34075G1	0.75Kw Power Unit	415 VAC	$ 2580.00	$ 2695.00
CHA34110G1	1.10Kw Power Unit	415 VAC	$ 2760.00	$ 2760.00
CHA34150G1	1.50Kw Power Unit	415 VAC	$ 2750.00	$ 2870.00
CHA34220G1	2.20Kw Power Unit	415 VAC	$ 2915.00	$ 3030.00

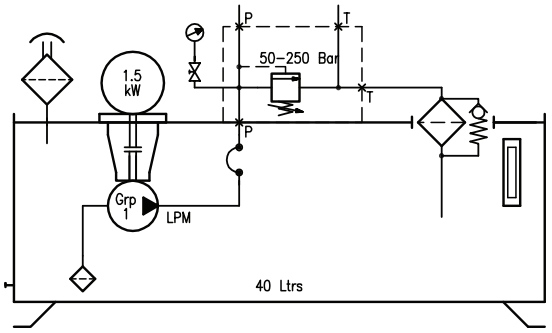
CHA Series 240 Volt AC Single Phase Pre-Assembled Power Units with Group Two Pump

Stock No.	Description	Voltage	List Price with Tank Capacity				
			CHA40 40 Ltr	CHA55 55 Ltr	CHA75 75 Ltr	CHA130 130 Ltr	CHA200 200 Ltr
CHA14220G2	2.20 Kw Power Unit	240 VAC	$ 3560.00	$ 3675.00	$ 3790.00	$ 4000.00	$ 4140.00

Power Unit Paint Codes and Colours

Code	Colour
WPPT0001	Etch Black
WPPTGA01	Gloss Black 7059
WPPTCH01	Gloss Cross Blue B21 Ultramarine





Typical Power Unit Schematic

**Lpm @ ** Bar 1.5 kW 240VAC/50Hz – 415VAC/50Hz

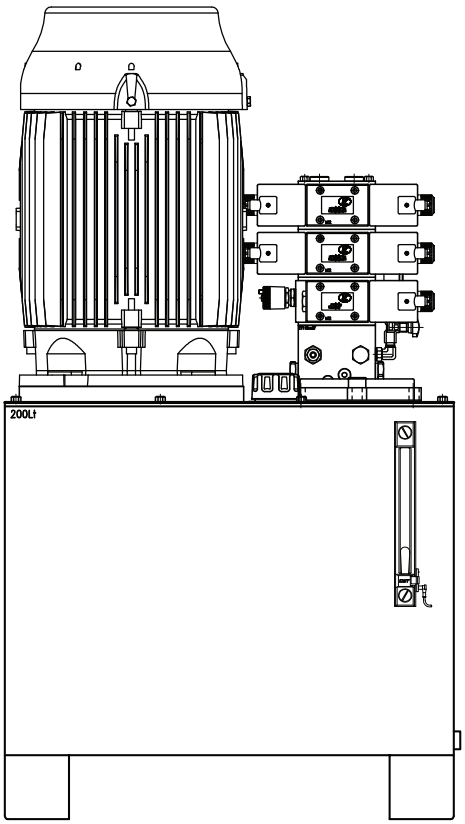
CHA Standard Power Units

CHA Series 415 Volt AC Three Phase Pre-Assembled Power Units with Group Two Pump

Stock No.	Description	Voltage	List Price with Tank Capacity				
			CHA40 40 Ltr	CHA55 55 Ltr	CHA75 75 Ltr	CHA130 130 Ltr	CHA200 200 Ltr
CHA34220G2	2.20 Kw Power Unit	415 VAC	$ 3095.00	$ 3215.00	$ 3325.00	$ 3540.00	$ 3675.00
CHA34300G2	3.00 Kw Power Unit	415 VAC	$ 3195.00	$ 3490.00	$ 3490.00	$ 3700.00	$ 3840.00
CHA34400G2	4.00 Kw Power Unit	415 VAC	$ 3575.00	$ 3690.00	$ 3805.00	$ 4015.00	$ 4000.00
CHA34550G2	5.50 Kw Power Unit	415 VAC	-	$ 4235.00	$ 4350.00	$ 4540.00	$ 4700.00
CHA34750G2	7.50 Kw Power Unit	415 VAC	-	$ 4800.00	$ 4915.00	$ 5175.00	$ 5315.00
CHA34920G2	9.20 Kw Power Unit	415 VAC	-	-	$ 5600.00	$ 5810.00	$ 5950.00
CHA341100G2	11.0 Kw Power Unit	415 VAC	-	-	$ 6030.00	$ 6245.00	$ 6380.00

CHA Series 415 Volt AC Three Phase Pre-Assembled Power Units with Group Three Pump

Stock No.	Description	Voltage	List Price with Tank Capacity				
			CHA75 75 Ltr	CHA130 130 Ltr	CHA200 200 Ltr	CHA300 300 Ltr	CHA400 400 Ltr
CHA34750G3	7.50 Kw Power Unit	415 VAC	$ 5620.00	$ 5815.00	$ 5950.00	-	-
CHA34920G3	9.20 Kw Power Unit	415 VAC	$ 6355.00	$ 6545.00	$ 6685.00	$ 7310.00	$ 7445.00
CHA341100G3	11.0 Kw Power Unit	415 VAC	$ 6790.00	$ 6980.00	$ 7115.00	$ 7740.00	$ 7880.00
CHA341500G3	15.0 Kw Power Unit	415 VAC	-	$ 7380.00	$ 7520.00	$ 8145.00	$ 8280.00
CHA341850G3	18.5 Kw Power Unit	415 VAC	-	$ 8855.00	$ 8995.00	$ 9620.00	$ 9755.00
CHA342200G3	22.0 Kw Power Unit	415 VAC	-	$ 9220.00	$ 9360.00	$ 9985.00	$ 10120.00
CHA343000G3	30.0 Kw Power Unit	415 VAC	-	-	$ 11250.00	$ 11875.00	$ 12010.00
CHA343700G3	37.0 Kw Power Unit	415 VAC	-	-	$ 13495.00	$ 14115.00	$ 14255.00



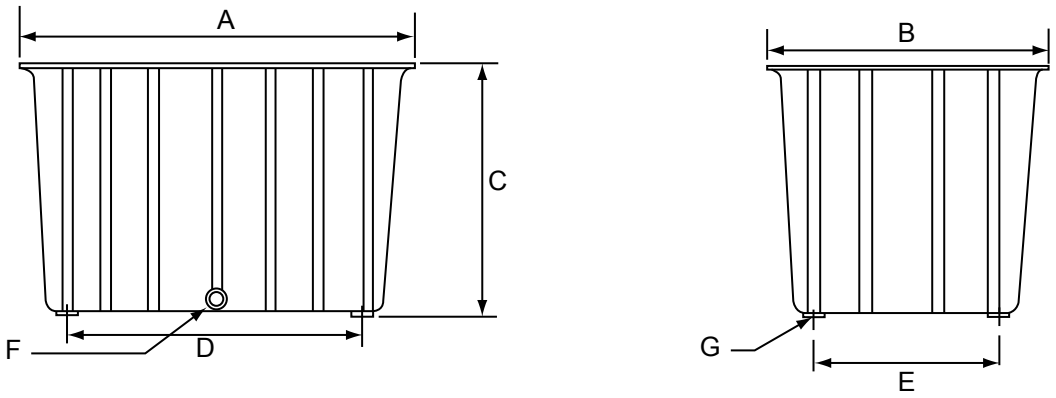
Power Unit Paint Codes and Colours

Code	Colour
WPPT0001	Etch Black
WPPTGA01	Gloss Black 7059
WPPTCH01	Gloss Cross Blue B21 Ultramarine

CP Oil Reservoirs

CP Aluminium Tanks

Stock No.	Description	Useable Capacity	Volume	Dimensions (mm)							List Price
				A	B	C	D	E	F	G	
CP3	Aluminium Tank	3 Litres	4 Litres	220	160	150	165	105	1/4” BSP	M6 x 15mm	$ 112.00
CP6	Aluminium Tank	6 Litres	8 Litres	280	200	176	210	130	1/4” BSP	M8 x 15mm	$ 127.00
CP10	Aluminium Tank	10 Litres	12 Litres	340	247	220	250	170	3/8” BSP	M8 x 16mm	$ 191.00
CP16	Aluminium Tank	16 Litres	20 Litres	368	290	245	270	190	1/2” BSP	M8 x 16mm	$ 284.00
CP25	Aluminium Tank	25 Litres	30 Litres	490	340	285	326	176	1/2” BSP	M10 x 20mm	$ 422.00
CP44	Aluminium Tank	44 Litres	50 Litres	515	415	315	341	241	1/2” BSP	M10 x 20mm	$ 1250.00



CCP Steel Lids to suit

Stock No.	Description	To Suit Tank Model	List Price
CCP3	Steel Reservoir Lid	CP3	$ 35.00
CCP6	Steel Reservoir Lid	CP6	$ 50.00
CCP10	Steel Reservoir Lid	CP10	$ 100.00
CCP16	Steel Reservoir Lid	CP16	$ 118.00
CCP25	Steel Reservoir Lid	CP25	$ 134.00
CCP44	Steel Reservoir Lid	CP44	$ 184.00

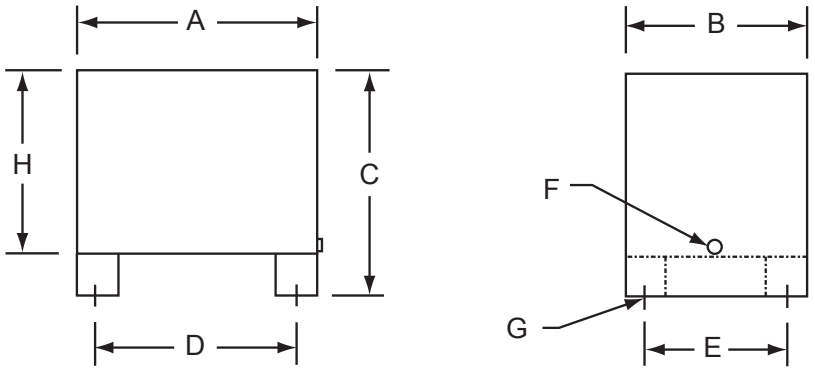
CHA Oil Reservoirs

CHA Unpainted Steel Tanks

Stock No.	Description	Useable Capacity	Volume	Dimensions (mm)								List Price
				A	B	C	D	E	F	G	H	
CHA40	Steel Tank	40 Litres	58 Litres	490	340	450	390	240	1/2” BSPP	Ø 14	350	$ 1040.00
CHA55	Steel Tank	55 Litres	95 Litres	600	450	450	500	350	1/2” BSPP	Ø 14	350	$ 1155.00
CHA65	Steel Tank	65 Litres	77 Litres	600	450	450	500	350	3/4” UNO	Ø 14	350	$ 1200.00
CHA75	Steel Tank	75 Litres	122 Litres	600	450	550	500	350	1/2” BSPP	Ø 14	450	$ 1245.00
CHA85	Steel Tank	85 Litres	99 Litres	600	450	550	500	350	3/4” UNO	Ø 14	450	$ 1300.00
CHA130	Steel Tank	130 Litres	148 Litres	600	450	650	500	350	1/2” BSPP	Ø 14	550	$ 1630.00
CHA135	Steel Tank	135 Litres	122 Litres	600	450	650	500	350	3/4” UNO	Ø 14	550	$ 1650.00
CHA200	Steel Tank	200 Litres	212 Litres	700	550	650	600	450	1/2” BSPP	Ø 14	550	$ 1900.00
CHA300	Steel Tank	300 Litres	346 Litres	900	700	650	800	600	1/2” BSPP	Ø 14	550	$ 2600.00
CHA400	Steel Tank	400 Litres	472 Litres	900	700	850	800	600	1/2” BSPP	Ø 14	750	$ 2700.00
CHA600	Steel Tank	600 Litres	700 Litres	1100	850	850	1000	750	1/2” BSPP	Ø 14	750	$ 3800.00

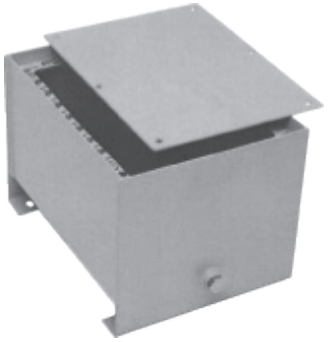
BFP Unpainted Steel Tanks

Stock No.	Description	Useable Capacity	Volume	Dimensions (mm)								List Price
				A	B	C	D	E	F	G	H	
BFP40	Steel Tank	40 Litres	70 Litres	450	450	400	400	400	1/2” BSPP	Ø 14	350	$ 894.00
BFP80	Steel Tank	80 Litres	100 Litres	450	450	550	400	400	1/2” BSPP	Ø 14	500	$ 1105.00



CCP Steel Lids to suit

Stock No.	Description	To Suit Tank Model	List Price
CCP25	Steel Reservoir Lid	CHA40	$ 134.00
CCP55	Steel Reservoir Lid	CHA55, CHA75, CHA130	$ 184.00
CCP200	Steel Reservoir Lid	CHA200	$ 250.00
CCP300	Steel Reservoir Lid	CHA300, CHA400	$ 301.00
CCP600	Steel Reservoir Lid	CHA600	$ 750.00
CBV40	Steel Reservoir Lid	BFP40, BFP80	$ 138.00

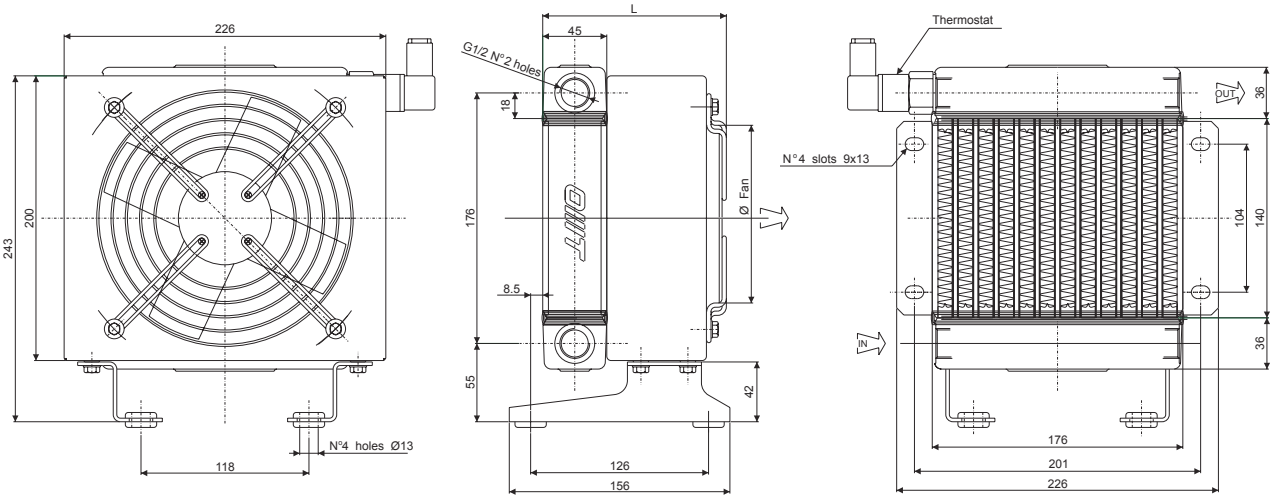


SS Air/Oil Heat Exchangers

SS10 Air/Oil Heat Exchangers - Aluminium

Stock No.	Frequency Hz	Voltage	RPM	Power Kw	Ø Fan (mm)	dB (A)	L (mm)	Q air (m3/h)	Cap. (ltr)	Weight Kg	List Price
SS100100PE	50	240VAC	2650/3000	0.050/0.046	170	63	125	500	0.28	6	$ 1071.00
SS100300PE	50	415VAC	2750/3100	0.045/0.043	170	63	125	500	0.25	6	$ 1315.00
SS101200PE	DC	12	4000	0.080	167	64	158	550	0.25	5	$ 1122.00
SS102400PE	DC	24	4100	0.080	167	64	158	550	0.28	5	$ 1139.00

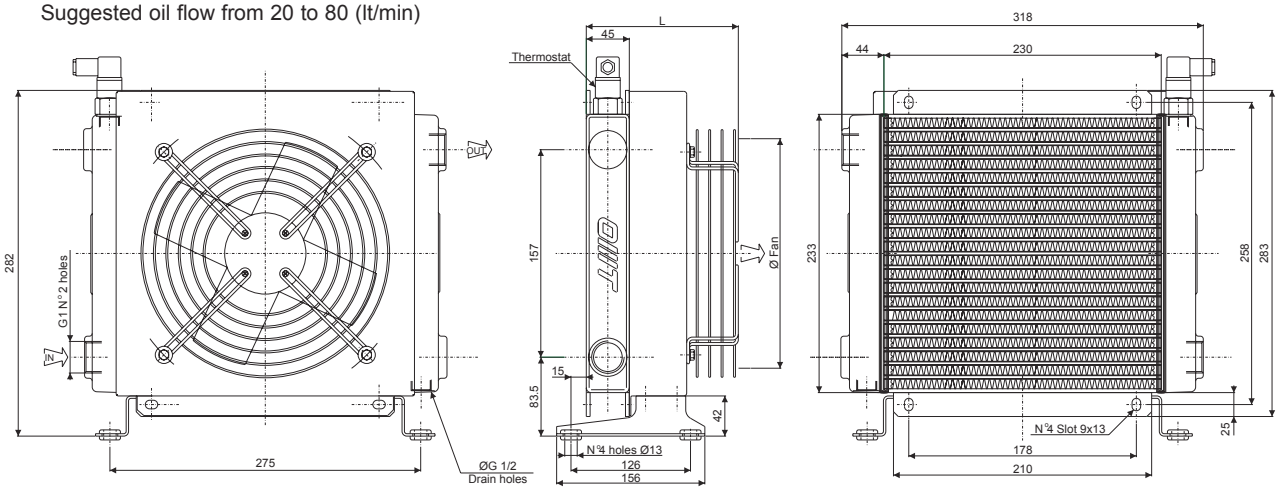
Suggested oil flow from 5 to 40 (lt/min)



SS15 Air/Oil Heat Exchangers - Aluminium

Stock No.	Frequency Hz	Voltage	RPM	Power Kw	Ø Fan (mm)	dB (A)	L (mm)	Q air (m3/h)	Cap. (ltr)	Weight Kg	List Price
SS150100PE	50	240VAC	2600/2900	0.064/0.078	200	67	152	890	0.48	7	$ 1392.00
SS150300PE	50	415VAC	1380/1840	0.068/0.070	200	67	152	890	0.48	7	$ 1364.00
SS151400PE	50	415VACB14	1370/1650	0.25	200	67	346	890	0.48	10	$ 2090.00
SS151200PE	DC	12	3100	0.100	225	66	158	1200	0.48	6.5	$ 1364.00
SS152400PE	DC	24	3000	0.100	225	66	158	1200	0.48	6.5	$ 1364.00

Suggested oil flow from 20 to 80 (lt/min)



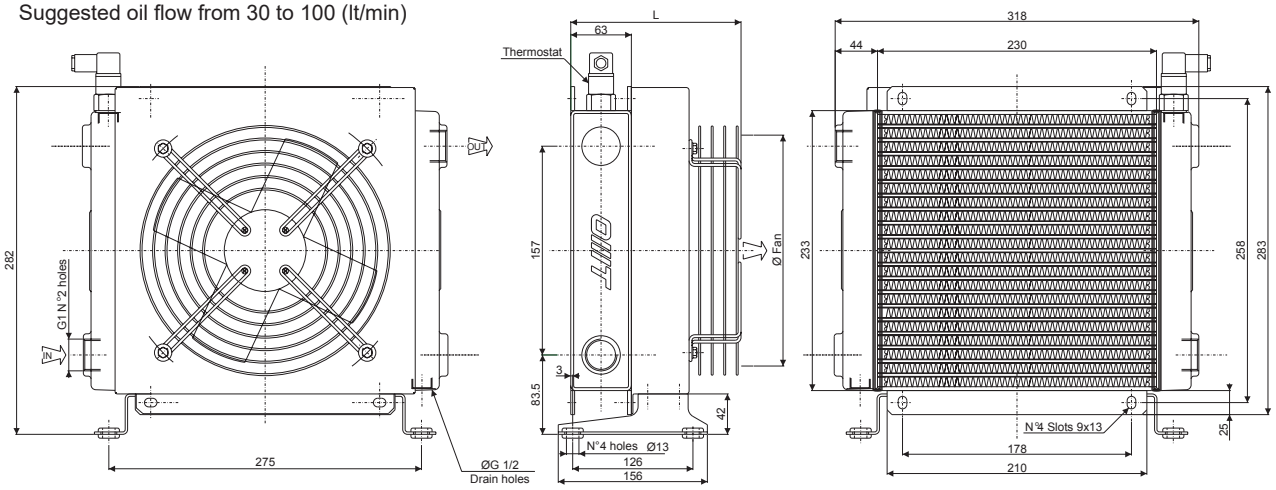
Use B14 type motor for continuous use.

SS Air/Oil Heat Exchangers

SS20 Air/Oil Heat Exchangers - Aluminium

Stock No.	Frequency Hz	Voltage	RPM	Power Kw	Ø Fan (mm)	dB (A)	L (mm)	Q air (m3/h)	Cap. (ltr)	Weight Kg	List Price
SS200100PE	50	240VAC	2600/2900	0.064/0.07	200	67	170	890	0.68	8	$ 1480.00
SS200300PE	50	415VAC	2600/2900	0.07/0.07	200	67	170	890	0.68	8	$ 1480.00
SS201400PE	50	415VACB14	1370/1650	0.25	200	67	364	700	0.68	11	$ 2107.00
SS201200PE	DC	12	3100	0.100	225	66	176	1200	0.68	7	$ 1491.00
SS202400PE	DC	24	3100	0.100	225	66	176	1200	0.68	7	$ 1491.00
SS20G200PE	GRP 2	Motor	-	-	200	-	-	-	-	7	$ 1610.00

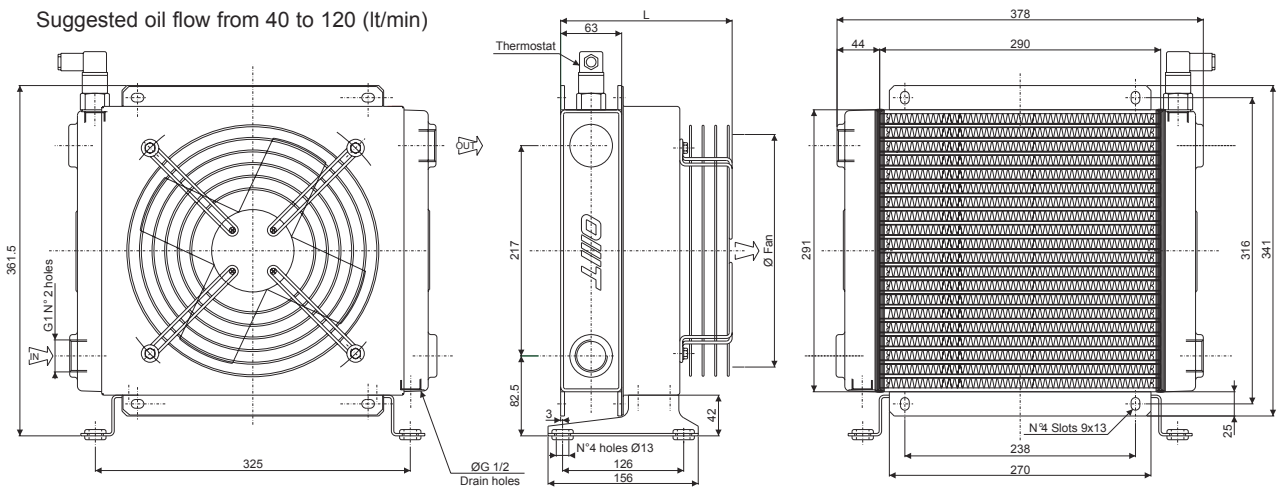
Suggested oil flow from 30 to 100 (lt/min)



SS24 Air/Oil Heat Exchangers - Aluminium

Stock No.	Frequency Hz	Voltage	RPM	Power Kw	Ø Fan (mm)	dB (A)	L (mm)	Q air (m3/h)	Cap. (ltr)	Weight Kg	List Price
SS240100PE	50	240VAC	2550/2750	0.11/0.16	250	68	169	1780	0.9	11	$ 1892.00
SS240300PE	50	415VAC	2500/2650	0.10/0.14	250	68	169	1780	0.9	11	$ 1914.00
SS241400PE	50	415VACB14	1370	0.25	250	68	364	1780	0.9	15.5	$ 2470.00
SS241200PE	DC	12	3000	0.100	280	66	176	1600	0.9	10	$ 1843.00
SS242400PE	DC	24	3000	0.100	280	66	176	1600	0.9	10	$ 1848.00
SS24G200AP	GRP 2	Motor	1500	-	250	71	194	1780	0.9	10	$ 2024.00

Suggested oil flow from 40 to 120 (lt/min)

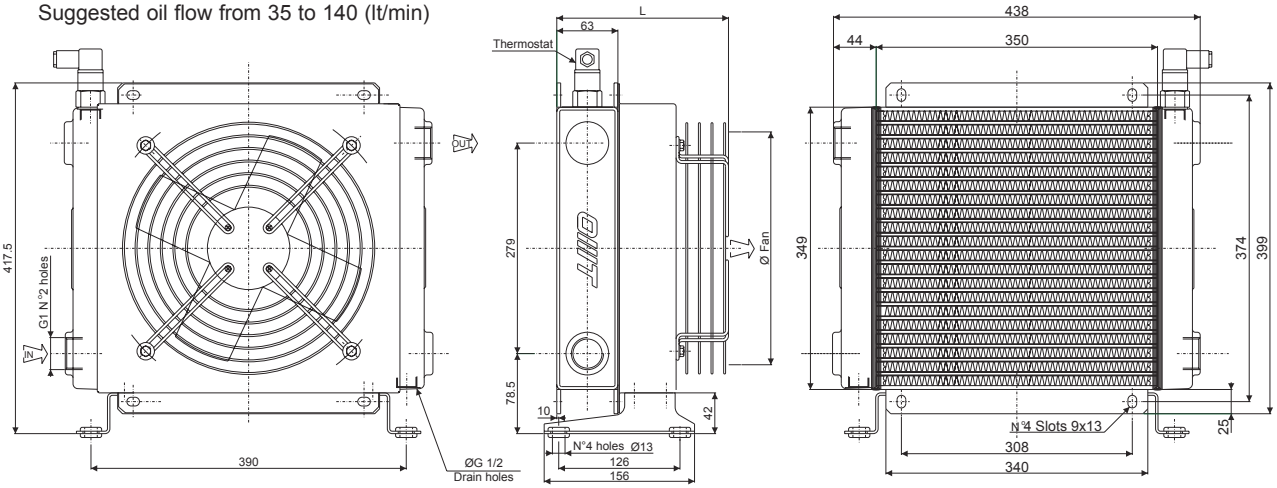


SS Air/Oil Heat Exchangers

SS30 Air/Oil Heat Exchangers - Aluminium

Stock No.	Frequency Hz	Voltage	RPM	Power Kw	Ø Fan (mm)	dB (A)	L (mm)	Q air (m3/h)	Cap. (ltr)	Weight Kg	List Price
SS300100PE	50	240VAC	1440/1700	0.16/0.24	400	71	223	4000	2.6	21	$ 2486.00
SS300300PE	50	415VAC	1450/1690	0.13/0.18	400	71	223	4000	2.6	21	$ 2481.00
SS301400PE	50	415VACB14	1430	0.55	400	71	446	4000	2.6	25	$ 3086.00
SS301200PE	DC	12	2500	0.200	385	69	229	3500	2.6	20	$ 2514.00
SS302400PE	DC	24	2500	0.200	385	71	229	3500	2.6	20	$ 2519.00
SS30G200AP	GRP 2	Motor	1500	-	400	71	248	4000	2.6	19	$ 2756.00

Suggested oil flow from 35 to 140 (lt/min)

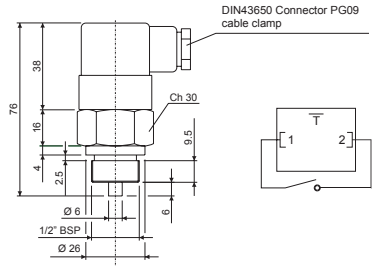


Use B14 type motor for continuous use.

OMT - Bi-Metallic Thermostat Switch

Stock No.	Description	Thread	Working Temp.	Max. Temp	Rating	List Price
T02	Thermostat Switch	1/2" BSPP	43 - 33 °C	100 °C	IP65	$ 76.00
T03	Thermostat Switch	1/2" BSPP	52 - 42 °C	100 °C	IP65	$ 76.00
T04	Thermostat Switch	1/2" BSPP	65 - 55 °C	100 °C	IP65	$ 76.00
T08	Thermostat Switch	1/2" NPT	0 - 90 °C	100 °C	IP40	$ 132.00

Bi-Metallic Fixed Temperature Switch



Stock Code	Working Temperature	Contact
T01	36-26°C	
T02	43-33°C	
T03	52-42°C	
T04	65-55°C	NA/NO
T05	75-65°C	
T06	85-75°C	
T07	95-85°C	

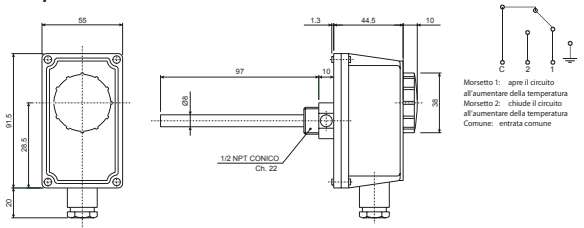
Electrical Data

Maximum voltage	250Vca
Maximum current	16A
Tolerance	±5°C
Maximum fixed hysteresis	15°C
Electrical connection	DIN43650
Protection degree	IP65
Maximum temperature	130°C

Materials

Body	Brass
Contacts	Silver plated

Temperature Switch



Electrical Data

Temperature range	0°±90°C
Tolerance	±5k
Temperature differential	6±2k
Degree of protection	IP40
Insulation class	I
Temperature rate of change	<1k/min
Maximum head temperature	80°C
Maximum sensing bulb temperature	125°C
Storage temperature	-15°C 55°C
Time constant	<1'
Contacts rating	C-1:10(2.5)A/250V~ C-2:6(2.5)A/250V~
Output	cutoff or switching contacts
Switch action	1B
Installation location	normal environment
Fairlead type	M20x1.5

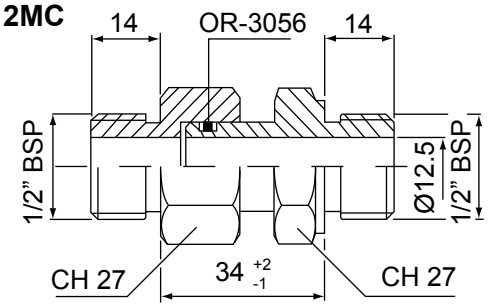
Tank Top Manifolds & Accessories

Adaptor Fitting

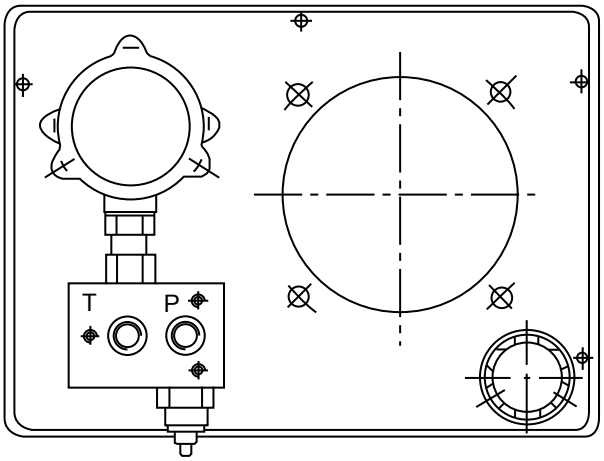
Made of steel, they are used for a fast connection between the base plate BMC and OMTF40AN return line filters.

Stock No.	Description	Size	List Price
R12MC	Adaptor Fitting	1/2” BSPP x 1/2” BSPP	$ 30.00

R12MC



Application Example

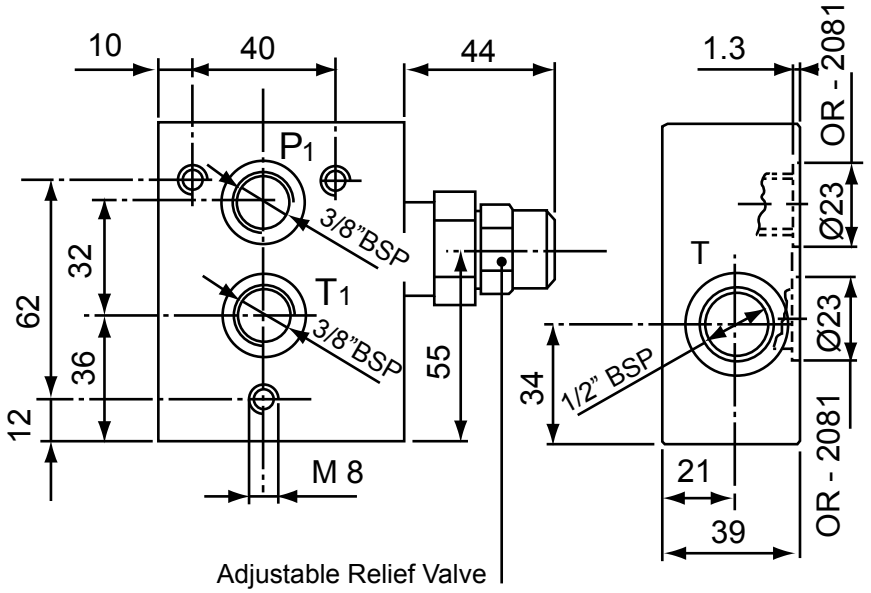


Base Plate Manifold with Relief Valve

Made of high quality aluminium, fitted with a relief valve, it is supplied for two different applications as follows:
1. Direct connection to remote control units by P and T 3/8” BSPP ports.
2. Mounting of ML31 stackable manifolds for direct connection of CETOP 3 (NG6) solenoid valves.

Stock No.	Description	Max. Flow	Relief Valve Range	Port Size	List Price
BMCVC2	Base Plate Manifold	40 lpm	35 - 180 bar	3/8” BSPP	$ 335.00

BMCVC2

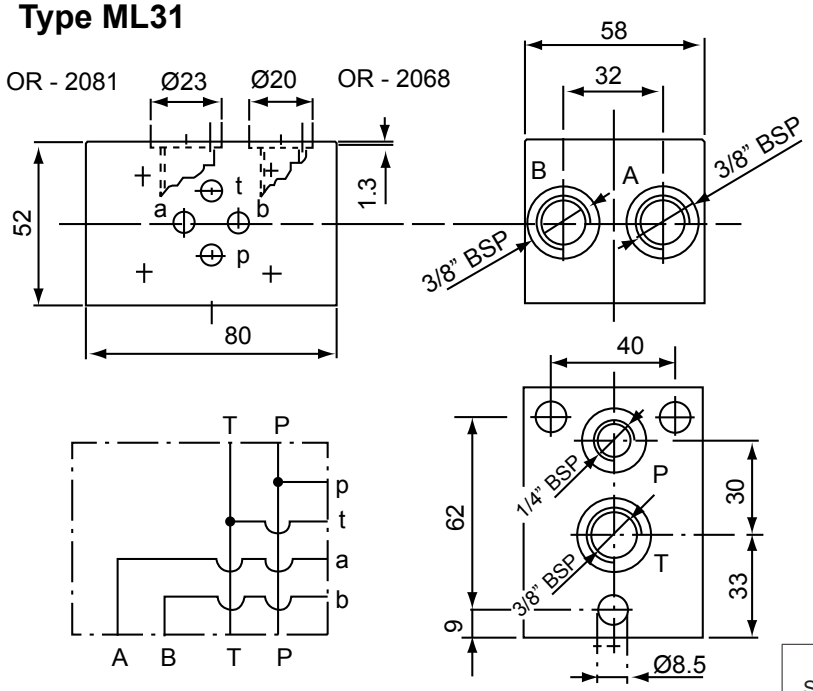


Tank Top Stackable Manifolds

Stackable Manifold for CETOP 3

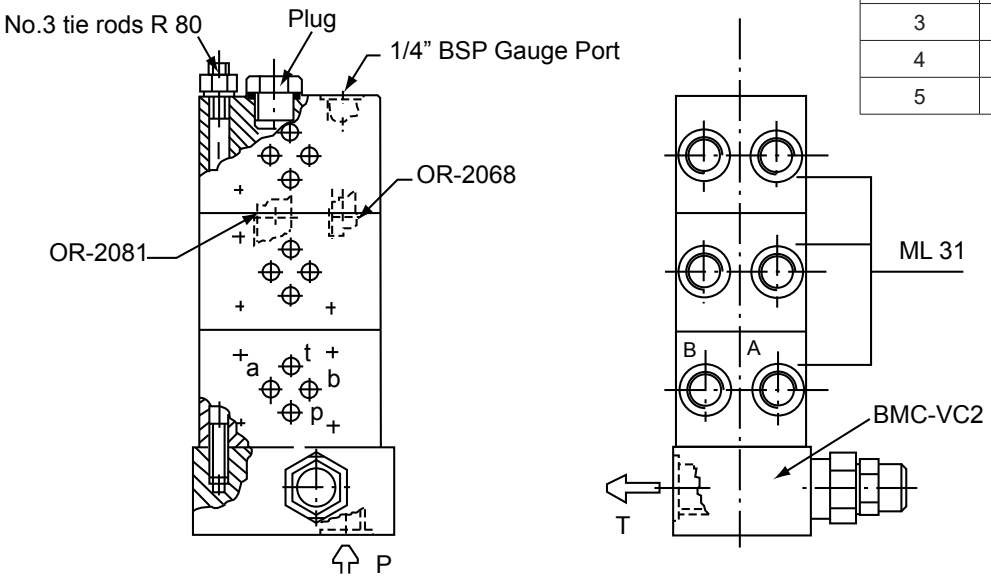
Stock No.	Description	Max. Pressure	Max. Flow	Port Sizes	List Price
ML31	Stackable Manifold Parallel	280 bar	40 lpm	3/8" BSPP	$ 182.00
ML31S	Stackable Manifold Series	280 bar	40 lpm	3/8" BSPP	$ 215.00

Type ML31



No. of Stations	Bolts/Tie Rods	Quantity Required
1	M8 x 70 Bolts	3
2	M8 x 120 Bolts	
3	M8 x 185 Tie Rod	
4	M8 x 235 Tie Rod	
5	M8 x 290 Tie Rod	

Mounting Example

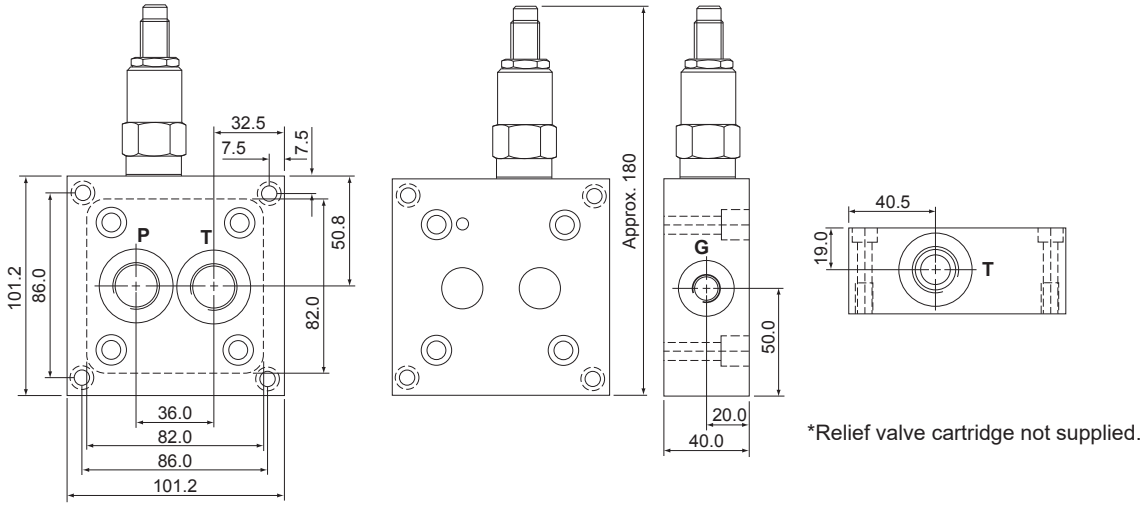


Tank Top Manifolds & Accessories

Base Plate Manifold with Relief Valve Cavity (C10-2)

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
TH3MA	Base Plate Manifold	60 lpm	210 bar	1/2” BSPP	Aluminium	$ 243.00
TH3MS	Base Plate Manifold	60 lpm	350 bar	1/2” BSPP	Steel	$ 363.00

Made from high quality aluminium or steel, fitted with relief valve C10-2 cavity.
It is supplied for two applications:
1: Direct connection to remote applications by P & T 1/2” BSPP ports.
2. Mounting of M3 manifolds for direct connection of CETOP 3 solenoid valves.

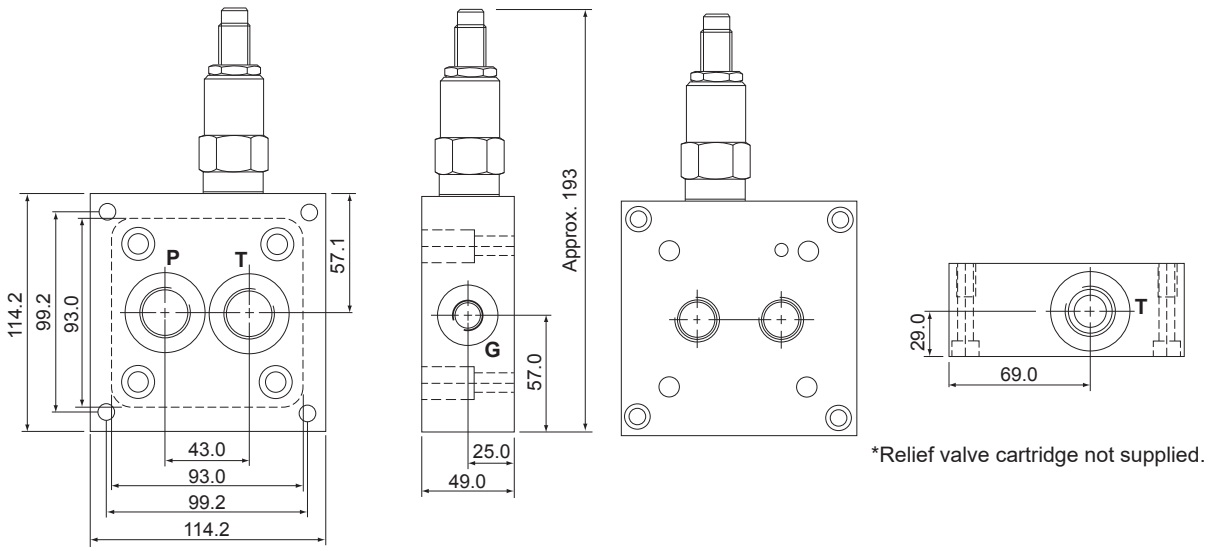


*Relief valve cartridge not supplied.

Base Plate Manifold with Relief Valve Cavity (C10-2)

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
TH5MJA	Base Plate Manifold	100 lpm	210 bar	3/4” BSPP	Aluminium	$ 310.00
TH5MJS	Base Plate Manifold	100 lpm	350 bar	3/4” BSPP	Steel	$ 493.00

Made from high quality aluminium or steel, fitted with relief valve C10-2 cavity.
It is supplied for two applications:
1: Direct connection to remote applications by P & T 3/4” BSPP ports.
2. Mounting of M5 manifolds for direct connection of CETOP 5 solenoid valves.



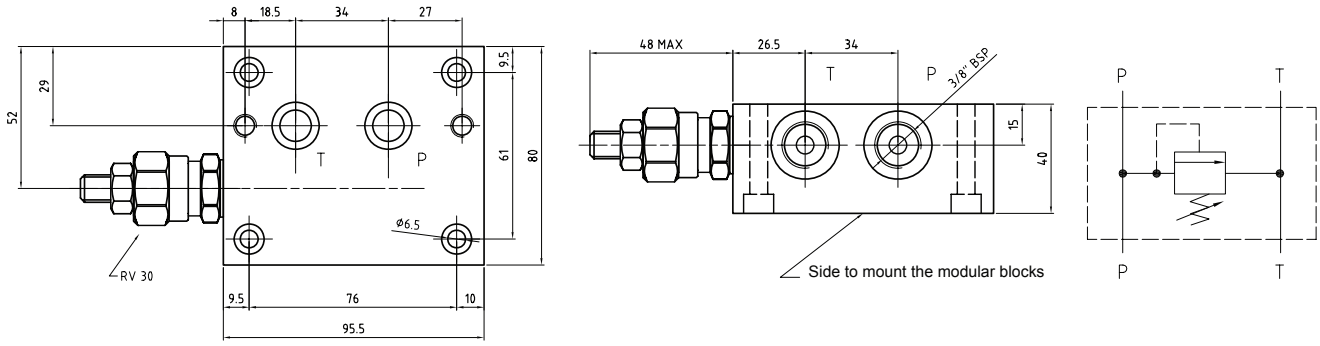
*Relief valve cartridge not supplied.

Tank Top Manifolds & Accessories

Base Plate Manifold with Relief Valve

Stock No.	Description	Max. Flow	Relief Valve Range	Port Size	List Price
PB3MCOM2B	Base Plate Manifold	30 lpm	35 - 180 bar	3/8” BSPP	$ 140.00

Made from high quality aluminium, fitted with a relief valve, it is supplied for two different applications as follows:
1: Direct connection to remote applications by P & T 3/8” BSPP ports.
2. Mounting of G stackable manifolds for direct connection of CETOP 3 (NG6) solenoid valves.

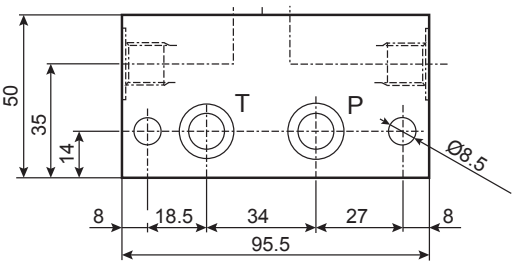


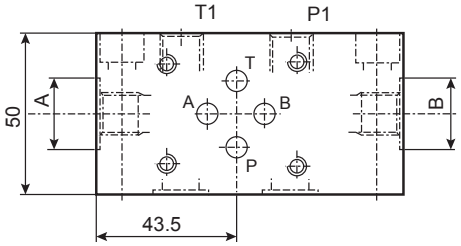
Tank Top Stackable Manifolds

Stackable Manifold

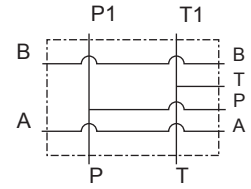
Stock No.	Description	Max. Pressure	Max. Flow	Port Size	List Price
G386002020	Stackable Manifold Parallel N03	280 bar	30 lpm	3/8” BSPP	$ 74.00
G386009020	Stackable Manifold Series N11	280 bar	30 lpm	3/8” BSPP	$ 77.00
G386094010	Stackable Manifold N95	280 bar	30 lpm	3/8” BSPP	$ 90.00
G386001A20	Stackable Manifold N12	280 bar	30 lpm	3/8” BSPP	$ 140.00
G386084020	Stackable Manifold N85	280 bar	30 lpm	3/8” BSPP	$ 164.00
G386015020	Stackable Manifold N16	280 bar	30 lpm	3/8” BSPP	$ 76.00
G386036030	Stackable Manifold N37	280 bar	30 lpm	1/2” BSPP	$ 132.00

Modular blocks able to accept CETOP 3 (2143) electrovalves for parallel or series circuit.
Each block includes 2 x OR 2056 gaskets.

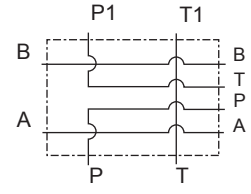




N03 Parallel Circuit



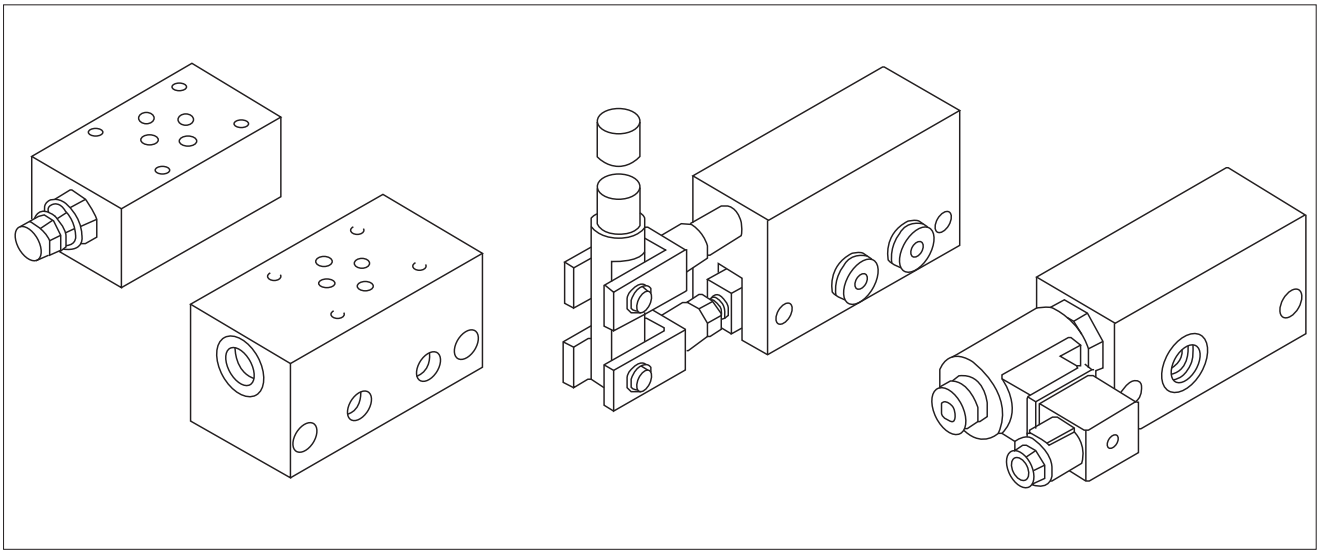
N11 Series Circuit



Stackable Manifolds

Base Plate Manifold with Hi/Low Cetop 3 or 5 Interface

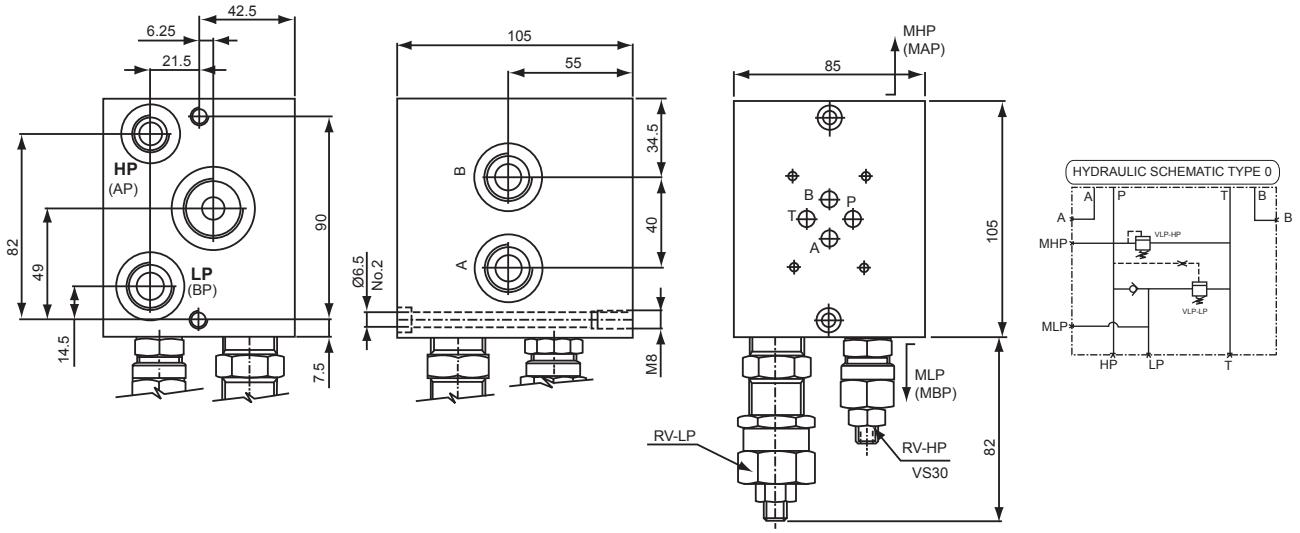
Stock No.	Model Code	Description	Port Size	List Price
G386001000	N01	Spacer Plate 39mm		$ 39.00
G386038000	N02	Spacer Plate 69mm		$ 58.00
G386002020	N03	Cetop 3 Parallel	3/8” BSPP	$ 74.00
LC1VM1A1	N05	Cetop 3 Relief on A		$ 242.00
LC1VM1B1	N06	Cetop 3 Relief on B		$ 242.00
LC1VM1AB1	N07	Cetop 3 Relief on A & B		$ 339.00
G386010000	N09	Spacer Plate 18mm		$ 22.00
G386009010	N11	Cetop 3 Series	1/4” BSPP	$ 77.00
G386011A20	N12	Cetop 3 Parallel with Pilot Operated Checks A & B	3/8” BSPP	$ 140.00
G386014000	N15	Rotation Block Motor Side		$ 115.00
G386015020	N16	Cetop 3 Parallel End		$ 76.00
G386021010	N22	Hand Pump 6cc		$ 301.00
G386021023	N22	Hand Pump 6cc with Relief		$ 324.00
F451B20C	B20	Hand Pump 6cc		$ 301.00
G386025000	N26	Rotation Block Tank Side		$ 85.00
G386030B10	N31	Flow Control 3 Way		$ 297.00
G386038010	N39	Pressure Filter		$ 145.00
G386040A02	N41	3 Way Flow Divider		$ 83.00
EOVM103AB2F	N42	Double Overcentre Valve 4 : 1 A & B		$ 576.00
G386045000	N46	Spacer Block with P Port	1/4” BSPP	$ 28.00
G386050000	N51	Rotation Block Motor Side		$ 97.00
G386056000	N57	Manifold Block with P Check		$ 63.00
G386075000	N76	Rotation Block Tank Side		$ 103.00
G386084020	N85	Cetop 3 Parallel	3/8” BSPP	$ 164.00
G386094010	N95	Cetop 2 Parallel	1/4” BSPP	$ 90.00
G386116010	N116	Manifold with Return Filter - 0321040000		$ 220.00
G386163000	N163	P & T Manifold	1/2” BSPP	$ 85.00
G386169003	N169	Cetop 3 Parallel with Relief on B		$ 250.00
G386211B10	N211	Cetop 2 Manifold with Pilot Operated Checks A & B		$ 186.00



Tank Top Manifolds & Accessories

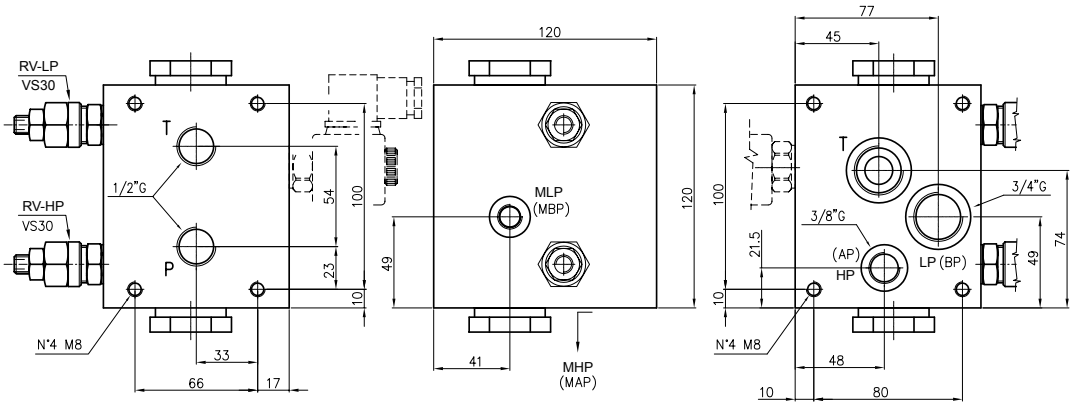
Base Plate Manifold with Hi/Low Cetop 3 or 5 Interface

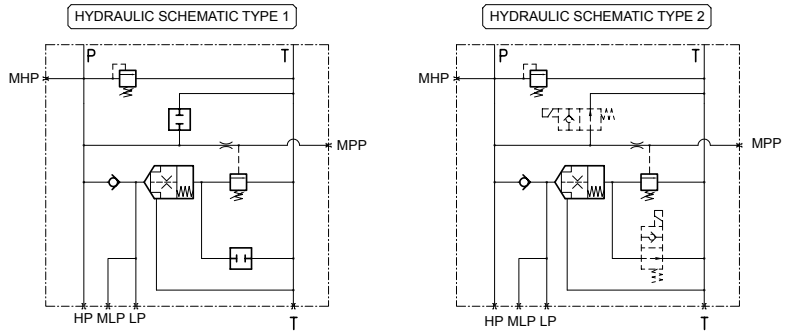
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
ET2032F2F	Base Plate Manifold Cetop 3	40 lpm	300 bar	1/2" BSPP	Steel	$ 617.00
ET2052F2F	Base Plate Manifold Cetop 5	50 lpm	350 bar	1/2" BSPP	Steel	$ 645.00



Base Plate Manifold with P & T Ports - EC3/5 Interface

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
ET1152F1F	Base Plate Manifold	100 lpm	300 bar	1/2" BSPP	Steel	$ 792.00



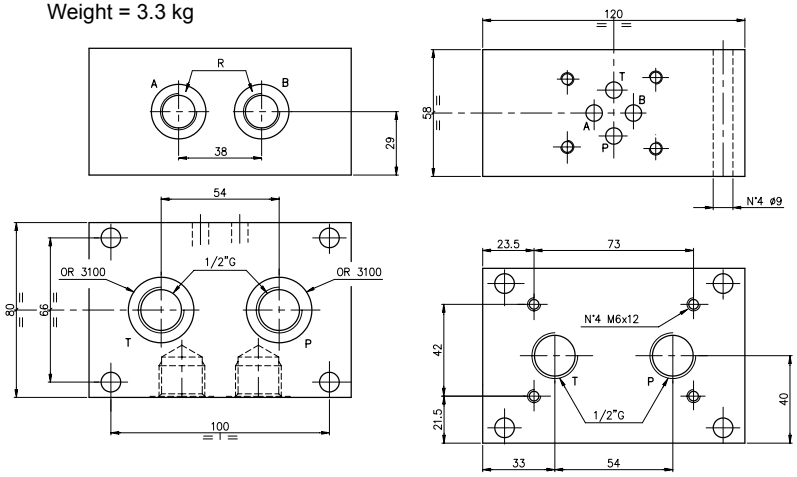


Tank Top Stackable Manifolds

Stackable Manifold for Cetop 3 / 5

Stock No.	Description	Max. Pressure	Max. Flow	Port Size	List Price
EC35412P	Stackable Manifold Parallel	300 bar	50 lpm	1/2" BSPP	$ 190.00
EC5434P	Stackable Manifold	300 bar	100 lpm	3/4" BSPP	$ 230.00

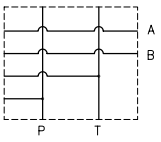
Subplate for packing CETOP 3 for CETOP 5 with ports A-B on back 1/2"G or 3/8"G
Weight = 3.3 kg



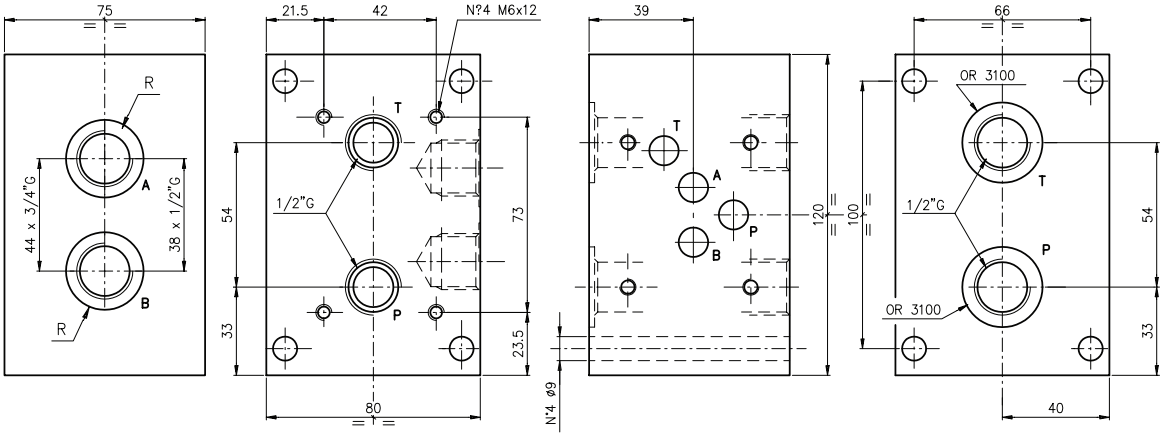
Ordering code: EC / 3 / 5 / 4 / 12 / P

- sub plate for packing = C
- CETOP 3
- CETOP 5
- 4 = 4 tie rods
- 12 = R 1/2"G
- P = rear ports

Symbol



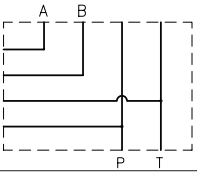
Sub plate for packing with A-B on back 1/2"G or 3/4"G.
Weight = 4.4 kg.



Ordering code: EC / 5 / 4 / * / P

- sub plate for packing = C
- CETOP 5
- 4 tie rods = 4
- 12 = R 1/2"G
- 34 = R 3/4"G
- P = rear ports

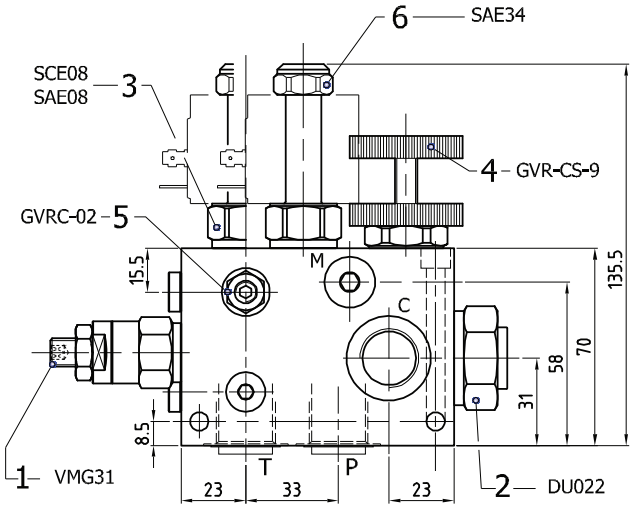
Symbol

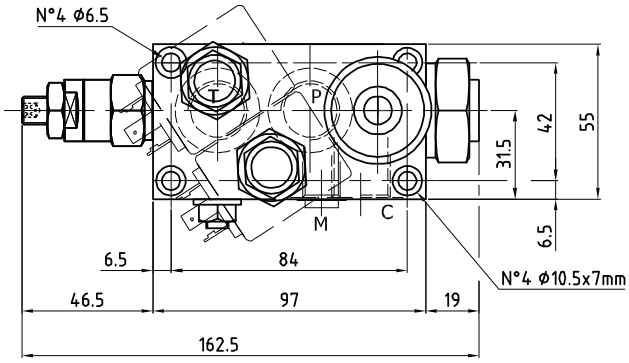


Tank Top Manifolds & Accessories

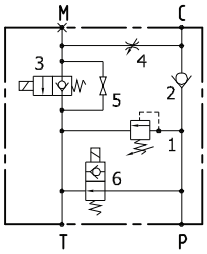
Base Plate Manifold - Unload, Lift, Dump & Check

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
280043330001	Base Plate Manifold	30 lpm	210 bar	1/2" BSPP	Aluminium	$ 560.00



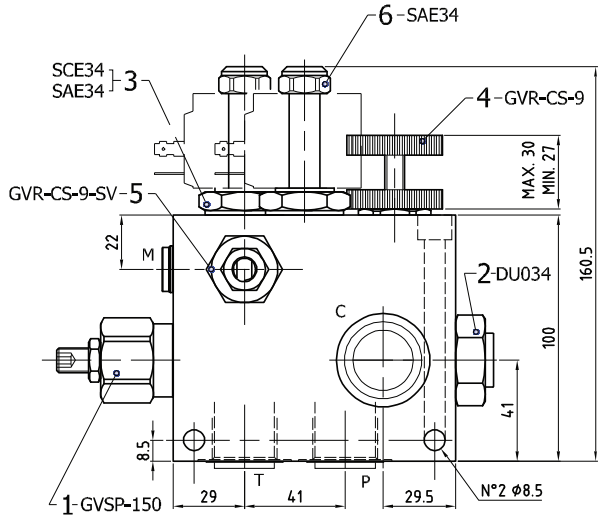


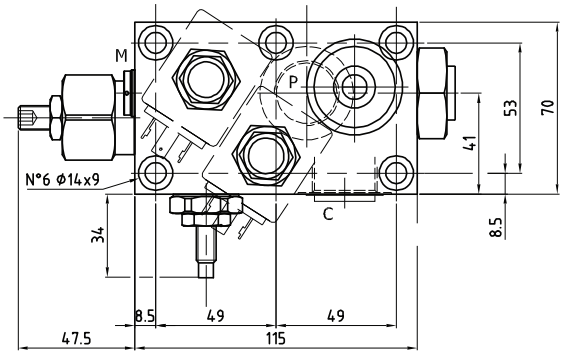
GVS-VMG31-SCE08-BYP-VU



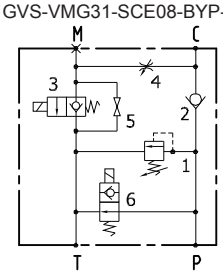
Base Plate Manifold - Unload, Lift, Dump & Check

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
280053430001	Base Plate Manifold	80 lpm	210 bar	3/4" BSPP	Aluminium	$ 800.00





GVS-VMG31-SCE08-BYP-VU

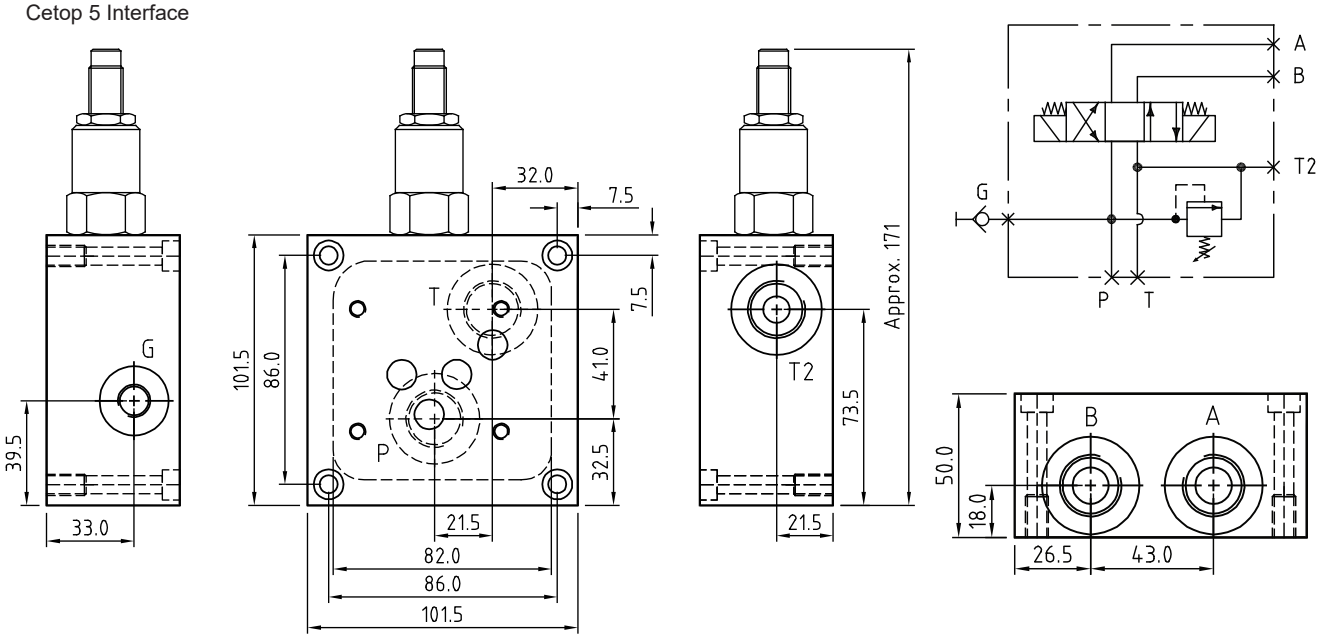


Tank Top Manifolds & Accessories

Base Plate Manifold with Relief Valve Cavity (C10-2) Cetop 5 Interface

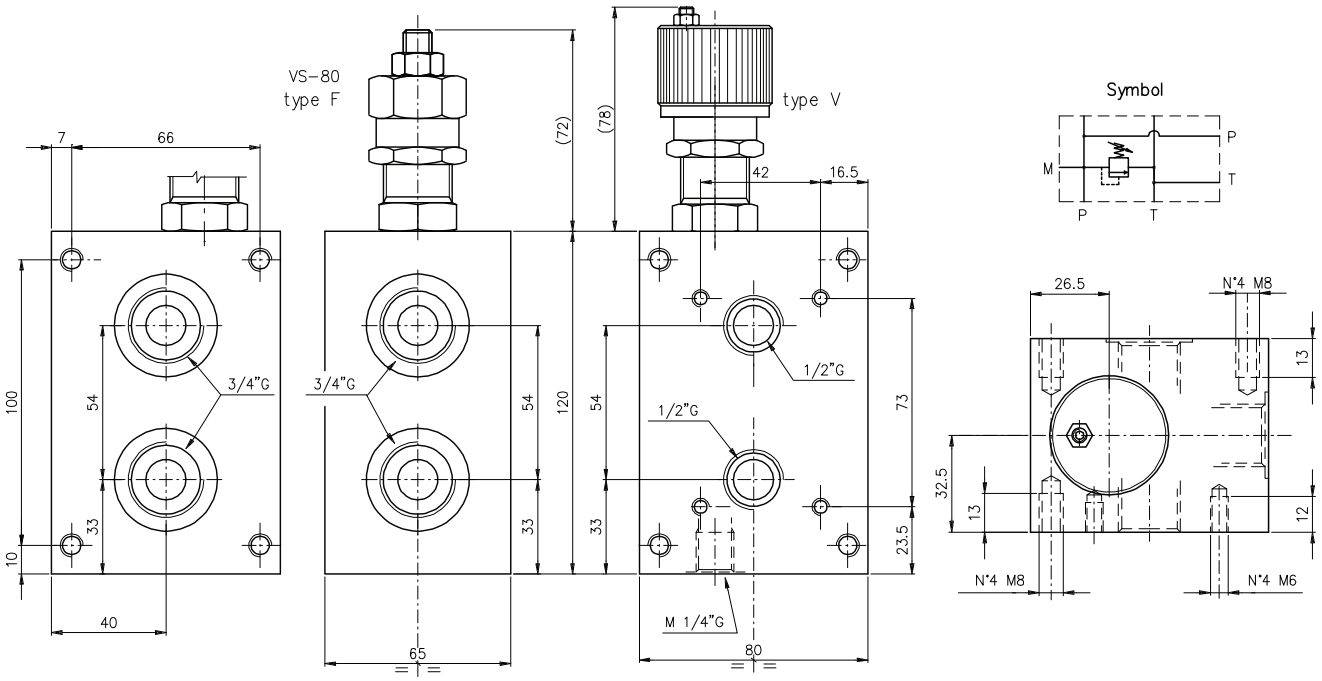
Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
T050A-36	Base Plate Manifold	60 LPM	210 BAR	1/2" BSPP	Aluminium	$ 428.00

Made from high quality aluminium fitted with relief valve C10-2 cavity.
Cetop 5 Interface



Base Plate Manifold with Relief Valve VSC80 / EC 3/5 Interface

Stock No.	Description	Max. Flow	Max. Pressure	Port Size	Body	List Price
EC354X3F	Base Plate Manifold	100 LPM	300 BAR	3/4" BSPP	Steel	$ 400.00

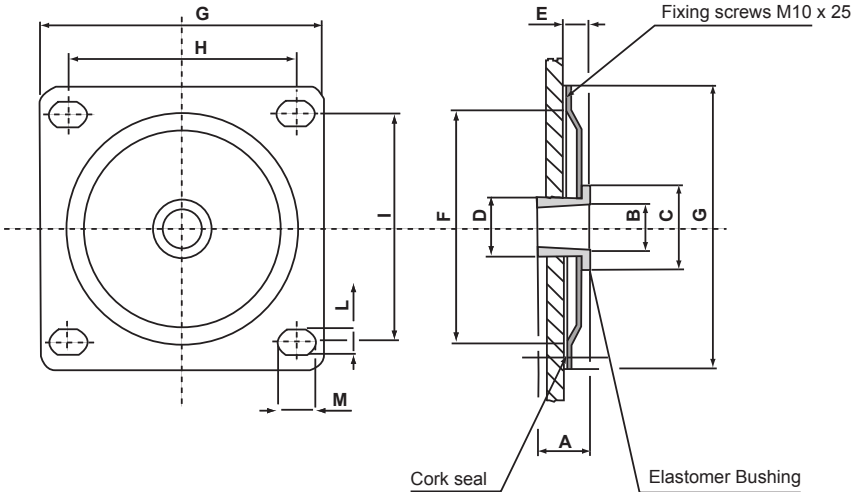


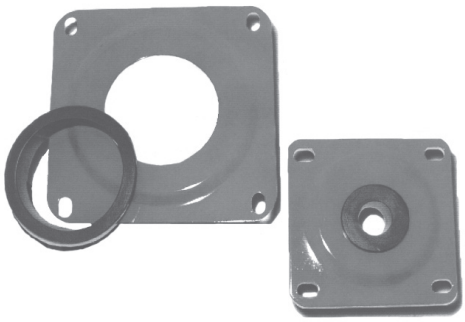
FFS Suction Return Flanges

Suction Return Flanges

FFS Series Flanges allow inlet and outlet tubes to be fixed onto the tank making maintenance easier and simple to check the semi-immersed filters in the tank.

Stock No.	Description	A	Dia B	Dia C	Dia D	E	Dia F	G	H	I	L	M	List Price
FFS15	Suction Flange	24	15	40	28	12.5	110	134	108	108	12	18	$ 39.00
FFS18	Suction Flange	24	18	40	28	12.5	110	134	108	108	12	18	$ 39.00
FFS22	Suction Flange	24	22	40	28	12.5	110	134	108	108	12	18	$ 39.00
FFS28	Suction Flange	24	28	55	42	12.5	110	134	108	108	12	18	$ 39.00
FFS35	Suction Flange	24	35	55	42	12.5	110	134	108	108	12	18	$ 39.00
FFS44	Suction Flange	24	44	70	58	12.5	110	134	108	108	12	18	$ 39.00
FFS45	Suction Flange	24	44	70	58	12.5	164	190	159	159	12	18	$ 59.00
FFS50	Suction Flange	24	50	70	58	12.5	164	190	159	159	12	18	$ 59.00
FFS61	Suction Flange	24	61	80	68	12.5	164	190	159	159	12	18	$ 59.00
FFS77	Suction Flange	24	77	110	95	12.5	164	190	159	159	12	18	$ 59.00
FFS89	Suction Flange	24	89	110	95	12.5	164	190	159	159	12	18	$ 59.00





Elastomer Bushing

Stock No.	Suits FFS	A	Dia B	Dia C	Dia D	List Price
BPT15	FFS15	24	15	40	28	$ 14.00
BPT18	FFS18	24	18	40	28	$ 14.00
BPT22	FFS22	24	22	40	28	$ 14.00
BPT28	FFS28	24	28	55	42	$ 14.00
BPT35	FFS35	24	35	55	42	$ 14.00
BPT44	FFS44/45	24	44	70	58	$ 14.00
BPT50	FFS50	24	50	70	58	$ 20.00
BPT61	FFS61	24	61	80	68	$ 20.00
BPT77	FFS77	24	77	110	95	$ 20.00
BPT89	FFS89	24	89	110	95	$ 20.00

Section 10 | White Motors, Steering Units, Brakes & Flow Dividers

WEBSITE

SCAN OR CLICK TO VIEW

Model	Make	Page
OMM White Motors	White	10.02
OMM White Motors	White	10.03
WP (155/156 Series) Motors	White	10.04
OMP / OMP X White Motors	White	10.05
OMP / OMP X White Motors	White	10.06
OMP / OMP X White Motors	White	10.07
WR (255/256 Series) Motors	White	10.08
RS (200-201 Series) Motors	White	10.09
OMR / OMR X White Motors	White	10.10
OMR / OMR X White Motors	White	10.11
OMR / OMR X White Motors	White	10.12
WS (350 Series) Motors	White	10.13
WS (360 Series) Motors	White	10.14
RE (505/506 Series) Motors	White	10.15
OMH White Motors	White	10.16
OMH White Motors	White	10.17
DR (600 Series) Motors	White	10.18
HB (300 Series) Motors	White	10.19
DT (700 Series) Motors	White	10.20
D9 (800 Series) Motors	White	10.21
SB (930 Series) Brakes	White	10.22
Flangeable Valves	Fluid Press	10.23
Flangeable Valves	Fluid Press	10.24
Flangeable Valves	Fluid Press	10.25
FD (950 Series) Flow Dividers	White	10.26
P Series Flow Dividers	Delta	10.27
PM & P Series Flow Dividers	Delta	10.28
HSR Rotary Flow Dividers	MTE	10.29
HPR Rotary Flow Dividers	MTE	10.30

OMM White Motors

Low Speed High Torque (LSHT) Orbital Motors

WHITE

WEBSITE

SCAN OR CLICK TO VIEW

16mm Cylindrical Shaft End Ports - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Int.	Ports	Weight (Kgs)	List Price
151G0040	OMM	8	8.2	1950	16	140	3/8" BSPP Ports	2	$620.00
151G0001	OMM	12.5	12.9	1550	20	140	3/8" BSPP Ports	2	$632.00
151G0002	OMM	20	19.9	1000	20	140	3/8" BSPP Ports	2.1	$642.00
151G0003	OMM	32	31.6	630	20	140	3/8" BSPP Ports	2.2	$653.00
151G0037	OMM	50	50.3	400	20	140	3/8" BSPP Ports	2.2	$877.00

16mm Cylindrical Shaft Side Ports - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Int.	Ports	Weight (Kgs)	List Price
151G0041	OMM	8	8.2	1950	16	140	3/8" BSPP Ports	2	$620.00
151G0004	OMM	12.5	12.9	1550	20	140	3/8" BSPP Ports	2	$632.00
151G0005	OMM	20	19.9	1000	20	140	3/8" BSPP Ports	2.1	$642.00
151G0006	OMM	32	31.6	630	20	140	3/8" BSPP Ports	2.2	$653.00
151G0013	OMM	50	50.3	400	20	140	3/8" BSPP Ports	2.2	$729.00

5/8” Cylindrical Shaft End Ports - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Int.	Ports	Weight (Kgs)	List Price
151G0048	OMM	8	8.2	1950	16	140	9/16"UNO	2	$620.00
151G0031	OMM	12.5	12.9	1550	20	140	9/16"UNO	2	$632.00
151G0032	OMM	20	19.9	1000	20	140	9/16"UNO	2.1	$642.00
151G0033	OMM	32	31.6	630	20	140	9/16"UNO	2.2	$653.00
151G5032	OMM	50	50.3	400	20	140	9/16"UNO	2.2	$877.00

5/8” Cylindrical Shaft Side Ports - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Int.	Ports	Weight (Kgs)	List Price
151G0049	OMM	8	8.2	1950	16	140	9/16"UNO	2	$620.00
151G0034	OMM	12.5	12.9	1550	20	140	9/16"UNO	2	$632.00
151G0035	OMM	20	19.9	1000	20	140	9/16"UNO	2.1	$642.00
151G0036	OMM	32	31.6	630	20	140	9/16"UNO	2.2	$653.00

OMM White Motors

Low Speed High Torque (LSHT) Orbital Motors

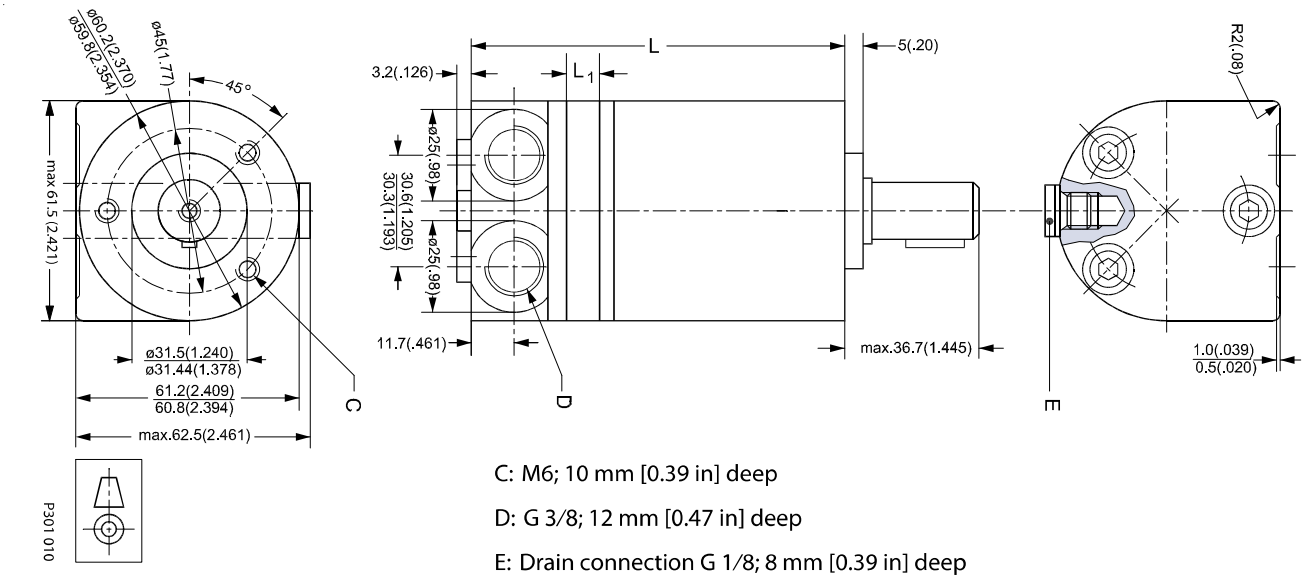
WHITE

WEBSITE

SCAN OR CLICK TO VIEW

16mm Cylindrical Shaft Side Ports - EMD Provision

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Int.	Ports	Weight (Kgs)	List Price
11105513	OMM	8	8.2	1950	16	140	3/8" BSP	2	$1,024.00
11105514	OMM	12.5	12.9	1550	20	140	3/8" BSP	2	$1,029.00
11105515	OMM	20	19.9	1000	20	140	3/8" BSP	2.1	$1,061.00
11105516	OMM	32	31.6	630	20	140	3/8" BSP	2.2	$1,061.00
11105517	OMM	50	50.3	400	20	140	3/8" BSP	2.2	$1,282.00
11094003	EMD Speed Sensor								$529.00



C: M6; 10 mm [0.39 in] deep

D: G 3/8; 12 mm [0.47 in] deep

E: Drain connection G 1/8; 8 mm [0.39 in] deep

OMM Options & Accessories

Stock No	Type	Description	List Price
151G0202	OMM	Seal Kit	$100.00
11066818	OMM	Viton Seal Kit (FPM Shaft Seal)	$377.00
151G0211	OMM	2 Bolt Flange Kit	$64.00

155/156 (WP Series) Motors

155 ( ) ( ) ( ) **AAAAA**

ROTOR HOUSING SHAFT

Stock No.	Rotors (Displacement)		RPM	Max. Flow	Max Pressure	List Price
	cu.in/rev	cc/rev	per LPM	lpm	bar	
155025*****AAAAA	1.5	25	40	40	140	$ 654.00
155032*****AAAAA	2.0	32	30	50	160	$ 654.00
155040*****AAAAA	2.5	40	25	60	160	$ 654.00
155050*****AAAAA	3.0	50	20	60	140	$ 654.00
155060*****AAAAA	3.6	59	17	60	160	$ 667.00
155080*****AAAAA	4.8	78	13	60	160	$ 667.00
155100*****AAAAA	5.9	96	10	60	160	$ 667.00
155125*****AAAAA	7.6	125	8	60	160	$ 702.00
155160*****AAAAA	9.4	154	6	60	160	$ 726.00
155200*****AAAAA	11.6	190	5	60	150	$ 758.00
155250*****AAAAA	14.6	240	4	60	140	$ 792.00
155315*****AAAAA	18.5	303	3	60	120	$ 824.00
155400*****AAAAA	23.7	388	2.6	60	95	$ 858.00
155222001	Seal Kit					$ 158.00

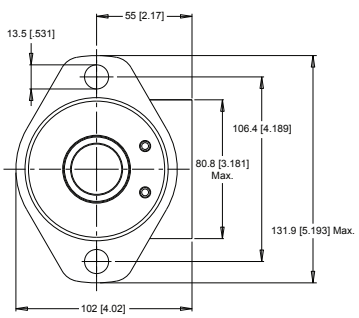
Housings	Code	Add to List
SAE A 2 Bolt 1/2” BSPP Offset Manifold	A63	-
Square 4 Bolt 7/8” UN Aligned	F31	-
Output Shafts	**Code**	
1” Parallel 1/4” Key	10	-
25mm Parallel 8mm Key	12	-
6B Spline (1”)	02	-
13 Tooth Spline (7/8”)	01	-

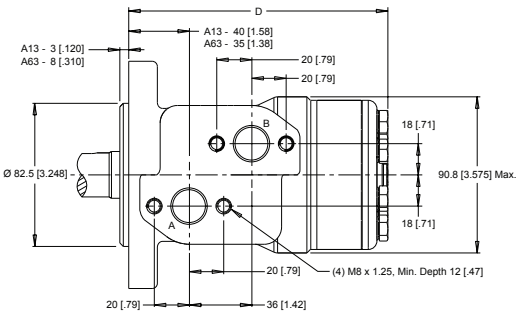
WP (155/156 Series)
Light Duty Hydraulic Motor

HOUSINGS

▷ Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

2-HOLE, SAE A MOUNT, OFFSET MANIFOLD PORTS A13 G 1/2 A63 G 1/2 (TP)





Note: Flow and pressure are continuous operation.
See catalogue for peak.

OMP / OMP X White Motors

WHITE

SCAN OR CLICK TO VIEW

Low Speed High Torque (LSHT) Orbital Motors

25mm Cylindrical Shaft - SAE (A-2) Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11185769	OMP X	25	25	1600	40	115	1/2" BSPP Ports	5.5	$888.00
11185775	OMP X	32	32	1560	50	115	1/2" BSPP Ports	5.5	$894.00
11186719	OMP X	40	40	1500	60	115	1/2" BSPP Ports	5.6	$897.00
11185771	OMP X	50	48.6	1230	60	160	1/2" BSPP Ports	5.6	$910.00
11186721	OMP X	80	77.8	770	60	160	1/2" BSPP Ports	5.7	$912.00
11186725	OMP X	100	97.3	615	60	160	1/2" BSPP Ports	5.9	$918.00
11185743	OMP X	125	125	480	60	160	1/2" BSPP Ports	6	$924.00
11186705	OMP X	160	155.7	385	60	160	1/2" BSPP Ports	6.2	$926.00
11186708	OMP X	200	194.6	310	60	155	1/2" BSPP Ports	6.4	$954.00
11186711	OMP X	250	242.3	250	60	120	1/2" BSPP Ports	6.6	$982.00
11186712	OMP X	315	306.1	195	60	100	1/2" BSPP Ports	6.9	$1,022.00
11186714	OMP X	400	389.2	155	60	75	1/2" BSPP Ports	7.4	$1,204.00

1" Cylindrical Shaft - SAE (A-2) Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11193816	OMP X	25	25	1600	40	115	1/2" BSPP Ports	5.5	$888.00
11193815	OMP X	32	32	1560	50	115	1/2" BSPP Ports	5.5	$894.00
11185806	OMP X	40	40	1500	60	115	1/2" BSPP Ports	5.6	$897.00
11186729	OMP X	50	48.6	1230	60	160	1/2" BSPP Ports	5.6	$910.00
11185808	OMP X	80	77.8	770	60	160	1/2" BSPP Ports	5.7	$912.00
11186730	OMP X	100	97.3	615	60	160	1/2" BSPP Ports	5.9	$918.00
11185792	OMP X	125	125	480	60	160	1/2" BSPP Ports	6	$924.00
11186726	OMP X	160	155.7	385	60	160	1/2" BSPP Ports	6.2	$926.00
11185796	OMP X	200	194.6	310	60	155	1/2" BSPP Ports	6.4	$954.00
11185798	OMP X	250	242.3	250	60	120	1/2" BSPP Ports	6.6	$982.00
11186728	OMP X	315	306.1	195	60	100	1/2" BSPP Ports	6.9	$1,022.00
11185802	OMP X	400	389.2	155	60	75	1/2" BSPP Ports	7.4	$1,204.00

1" Spline (6B) Shaft - SAE (A-2) Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11186738	OMP X	50	48.6	1230	60	160	1/2" BSPP Ports	5.6	$1,034.00
11186739	OMP X	80	77.8	770	60	160	1/2" BSPP Ports	5.7	$1,044.00
11186740	OMP X	100	97.3	615	60	160	1/2" BSPP Ports	5.9	$1,055.00
11186731	OMP X	125	125	480	60	160	1/2" BSPP Ports	6	$1,055.00
11186732	OMP X	160	155.7	385	60	160	1/2" BSPP Ports	6.2	$1,060.00
11185819	OMP X	200	194.6	310	60	155	1/2" BSPP Ports	6.4	$1,086.00
11186820	OMP X	250	242.3	250	60	120	1/2" BSPP Ports	6.6	$1,123.00
11185827	OMP X	315	306.1	195	60	100	1/2" BSPP Ports	6.9	$1,165.00
11186737	OMP X	400	389.2	155	60	75	1/2" BSPP Ports	7.4	$1,212.00

OMP / OMP X White Motors

WHITE

SCAN OR CLICK TO VIEW

Low Speed High Torque (LSHT) Orbital Motors

1” Cylindrical Shaft- Type C Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
1517061	OMP	50	48.6	1230	60	160	7/8"-14 UNF Ports	5.8	$910.00
1517062	OMP	80	77.8	770	60	160	7/8"-14 UNF Ports	5.9	$912.00
1517063	OMP	100	97.3	615	60	160	7/8"-14 UNF Ports	6.1	$918.00
1517065	OMP	160	155.7	385	60	160	7/8"-14 UNF Ports	6.4	$926.00
1517066	OMP	200	194.6	310	60	155	7/8"-14 UNF Ports	6.6	$954.00
1517067	OMP	250	242.3	250	60	120	7/8"-14 UNF Ports	7	$982.00
1517068	OMP	315	306.1	195	60	100	7/8"-14 UNF Ports	7.1	$1,022.00
1517069	OMP	400	389.2	155	60	75	7/8"-14 UNF Ports	7.6	$1,204.00

25mm Cylindrical Shaft - Wheel Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11185873	OMPW X	50	48.6	1230	60	160	1/2" BSPP Ports	5.5	$1,473.00
11185875	OMPW X	80	77.8	770	60	160	1/2" BSPP Ports	5.6	$1,482.00
11185877	OMPW X	100	97.3	615	60	160	1/2" BSPP Ports	5.8	$1,491.00
11186746	OMPW X	160	155.7	385	60	160	1/2" BSPP Ports	6.1	$1,499.00
11186747	OMPW X	200	194.6	310	60	155	1/2" BSPP Ports	6.3	$1,527.00
11185870	OMPW X	250	242.3	250	60	120	1/2" BSPP Ports	6.5	$1,564.00
11185871	OMPW X	315	306.1	195	60	100	1/2" BSPP Ports	6.8	$1,610.00
11185872	OMPW X	400	389.2	155	60	75	1/2" BSPP Ports	7.3	$1,661.00

28.5mm Tapered Shaft - Wheel Mounting Motor with Front Needle Bearings - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11185888	OMPW X	50	48.6	1230	60	160	1/2" BSPP Ports	5.5	$1,720.00
11185890	OMPW X	80	77.8	770	60	160	1/2" BSPP Ports	5.6	$1,729.00
11185892	OMPW X	100	97.3	615	60	160	1/2" BSPP Ports	5.8	$1,738.00
11186750	OMPW X	125	125	480	60	160	1/2" BSPP Ports	6	$1,742.00
11185882	OMPW X	160	155.7	385	60	160	1/2" BSPP Ports	6.1	$1,747.00
11186748	OMPW X	200	194.6	310	60	155	1/2" BSPP Ports	6.3	$1,774.00
11185884	OMPW X	250	242.3	250	60	120	1/2" BSPP Ports	6.5	$1,811.00
11185885	OMPW X	315	306.1	195	60	100	1/2" BSPP Ports	6.8	$1,857.00

OMP / OMP X White Motors

SCAN OR CLICK TO VIEW

Low Speed High Torque (LSHT) Orbital Motors

25mm Cylindrical Shaft - Separate Spigot Flange SAE (A-2) Mounting - Corrosion Resistant Parts

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
1511208	OMP	50	48.6	1230	60	160	1/2" BSPP Ports	5.5	$1,328.00
1511209	OMP	80	77.8	770	60	160	1/2" BSPP Ports	5.6	$1,335.00
1511210	OMP	100	97.3	615	60	160	1/2" BSPP Ports	5.8	$1,342.00
1511211	OMP	160	155.7	385	60	160	1/2" BSPP Ports	6.1	$1,349.00
1511212	OMP	200	194.6	310	60	155	1/2" BSPP Ports	6.3	$1,372.00
1511214	OMP	315	306.1	195	60	100	1/2" BSPP Ports	6.8	$1,436.00

25mm Cylindrical Shaft - SAE (A-2) Mounting -with EMD Provision

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11095306	OMP	50	48.6	1230	60	160	1/2" BSPP Ports	5.5	TBA
11105957	OMP	80	77.8	770	60	160	1/2" BSPP Ports	5.6	TBA
11105958	OMP	100	97.3	615	60	160	1/2" BSPP Ports	5.8	TBA
11105960	OMP	160	155.7	385	60	160	1/2" BSPP Ports	6.1	TBA
11105961	OMP	200	194.6	310	60	155	1/2" BSPP Ports	6.3	TBA
11105973	OMP	315	306.1	195	60	100	1/2" BSPP Ports	6.8	TBA

1” Cylindrical Shaft- SAE (A2) Mounting - with EMD Provision

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11110374	OMP	50	48.6	1230	60	160	7/8"-14 UNF Ports	5.8	TBA
11110375	OMP	80	77.8	770	60	160	7/8"-14 UNF Ports	5.9	TBA
11110376	OMP	100	97.3	615	60	160	7/8"-14 UNF Ports	6.1	TBA
11110378	OMP	160	155.7	385	60	160	7/8"-14 UNF Ports	6.4	TBA
11110379	OMP	200	194.6	310	60	155	7/8"-14 UNF Ports	6.6	TBA
11110380	OMP	250	242.3	250	60	120	7/8"-14 UNF Ports	7	TBA
11110406	OMP	315	306.1	195	60	100	7/8"-14 UNF Ports	7.1	TBA

RS (200/201 Series) Motors

RS □□ □□□□ □□

ROTOR HOUSING — OUTPUT — ROTATION — OPTIONS

Stock No.	Rotors (Displacement)		Rotor Width	RPM per LPM	Max.Flow	Max. Pressure	List Price
	cu.in/rev	cc/rev	inches		lpm	bar	
RS03****00	3.2	52	0.317	19.3	25	120	$ 805.00
RS04****00	4.6	76	0.463	13.2	40	120	$ 824.00
RS05****00	5.4	89	0.541	11.4	48	120	$ 842.00
RS99****00	6.3	103	0.776	9.7	60	120	$ 852.00
RS06****00	6.8	111	0.681	9.0	60	120	$ 852.00
RS08****00	7.7	127	0.776	7.9	70	103	$ 864.00
RS10****00	10.0	164	1.001	6.1	80	103	$ 871.00
RS12****00	12.5	205	1.251	5.0	80	103	$ 882.00
RS14****00	15.5	254	1.551	4.0	80	82	$ 910.00
RS18****00	17.9	293	1.791	3.4	80	62	$ 977.00
RS24****00	24.9	409	2.501	2.4	80	55	$ 1056.00
PS222001	Seal Kit						$ 139.00

Housings		
SAE 'A' Style & SAE 'A' Flange	**Code**	**Add to List Price**
1/2" NPT (2 Hole Sae 'A' Style Mount)	03	-
1/2" NPT (6 Hole Sae 'A' Style Mount)	14	-
1/2" BSP.F Offset (2 Hole SAE 'A' Mount)	07	-
1/2" BSP.F Offset Manifold (2 Hole SAE 'A' Mount)	09	$ 53.00
1/2" BSP.F O-Ring Aligned (2 Hole SAE' A' Mount)	10	-
1/2" BSP.F Aligned (2 Hole SAE' A' Mount)	20	-
7/8" O-Ring (2 Hole SAE 'A' Style Mount)	04	-
7/8" O-Ring (2 Hole SAE 'A' Mount)	34	-
7/8" O-Ring (6 Hole SAE 'A' Style Mount)	11	-
Manifold (2 Hole SAE 'A' Style Mount)	06	-
Four Hole Square Mount		
1/2" NPT	01	-
1/2" BSP.F (With Metric Mount)	21	-
7/8" O-Ring	02	-
Manifold	05	$ 53.00
Output Shafts		
1" Pinhole	00	-
1" Straight	01	-
1" Straight (For Speed Sensor Only)	21	-
25mm Straight (7mm Key)	12	-
25mm Straight (8mm Key)	08	-
25mm Straight (For Speed Sensor Only)	28	-
1" Tapered	09	-
6B Spline (1" Dia)	06	-
6B Spline Extended Nose (1" Dia)	16	-
13 Tooth Spline (7/8")	07	-
Rotation		
Clockwise	0	-
Counter Clockwise	1	-
Options		
No Options	0	-
Pack Nut (1" Tapered Shaft Only)	P	-
Milled Stator (Available On Manifold Housings Only)	B	-
Free Turning	F	$ 98.00
Increased Shaft/Housing Side Clearance	I	$ 98.00
Speed Sensor	Z	$ 910.00

255/256 (WR Series) Motors

255 ROTOR HOUSING SHAFT **AAAAA**

Stock No.	Rotors (Displacement)		RPM	Max. Flow	Max Pressure	List Price
	cu.in/rev	cc/rev	per LPM	lpm	bar	
255040*****AAAAA	2.5	40	25	45	155	$ 824.00
255060*****AAAAA	3.6	59	16	53	155	$ 824.00
255070*****AAAAA	4.3	71	14	61	172	$ 824.00
255090*****AAAAA	5.4	88	11	61	172	$ 841.00
255100*****AAAAA	6.1	100	10	61	172	$ 841.00
255115*****AAAAA	6.9	113	8	61	172	$ 858.00
255130*****AAAAA	7.9	129	7.5	61	172	$ 875.00
255160*****AAAAA	9.8	160	6	61	172	$ 890.00
255200*****AAAAA	12.1	198	5	61	172	$ 924.00
255240*****AAAAA	14.4	236	4	61	172	$ 949.00
255320*****AAAAA	19.6	323	3	61	121	$ 990.00
255400*****AAAAA	24.4	400	2.5	61	104	$ 1039.00
255222001	Seal Kit					$ 175.00

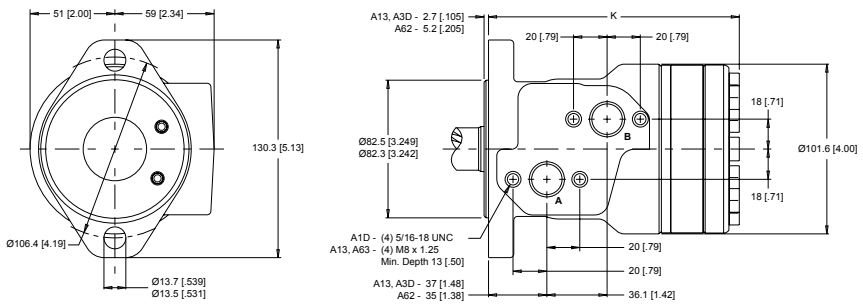
Housings	Code	Add to List
SAE A 2 Bolt 1/2” BSPP Offset Manifold	A63	-
Square 4 Bolt 1/2” BSPP Offset Manifold	F33	-
SAE B 2 bolt 1/2” BSPP Aligned	B18	$ 132.00
Output Shafts	**Code**	
1” Parallel 1/4” Key	10	-
1” Tapered	13	-
25mm Parallel 8mm Key	12	-
6B Spline (1”)	04	-
13 Tooth Spline (7/8”)	01	-

WR (All Series)
For Light Duty Applications

HOUSINGS

▷ Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

2-HOLE, SAE A MOUNT, OFFSET MANIFOLD PORTS A13 G 1/2 A1D 7/8-14 UNF A63 G 1/2 (TP)



▷ Dimension K is charted on page 10.61. ▷ (TP) - Taller Pilot Height. Refer to detailed drawing for dimensional differences. (Refer Catalogue)

Note: Flow and pressure are continuous operation.
See catalogue for peak.

OMR / OMR X White Motors

SCAN OR CLICK TO VIEW

Low Speed High Torque (LSHT) Orbital Motors

25mm Cylindrical Shaft - SAE (A-2) Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11185537	OMRX	50	51.6	775	40	150	1/2" BSPP Ports	6.7	$990.00
11186671	OMRX	80	80.3	750	60	200	1/2" BSPP Ports	6.9	$999.00
11186674	OMRX	100	99.8	600	60	200	1/2" BSPP Ports	7	$1,013.00
11186655	OMRX	125	124.1	475	60	200	1/2" BSPP Ports	7.2	$1,026.00
11186658	OMRX	160	155.4	385	60	180	1/2" BSPP Ports	7.5	$1,050.00
11186665	OMRX	200	198.2	305	60	150	1/2" BSPP Ports	8	$1,084.00
11186667	OMRX	250	248.1	240	60	125	1/2" BSPP Ports	8.5	$1,105.00
11186652	OMRX	315	310.1	195	60	100	1/2" BSPP Ports	9	$1,150.00
11185531	OMRX	375	363.5	165	60	80	1/2" BSPP Ports	9.5	$1,169.00

1” Cylindrical Shaft - SAE (A-2) Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11185558	OMRX	50	51.6	775	40	150	1/2" BSPP Ports	6.7	$999.00
11185560	OMRX	80	80.3	750	60	200	1/2" BSPP Ports	6.9	$999.00
11185562	OMRX	100	99.8	600	60	200	1/2" BSPP Ports	7	$1,013.00
11185548	OMRX	125	124.1	475	60	200	1/2" BSPP Ports	7.2	$1,026.00
11185549	OMRX	160	155.4	385	60	180	1/2" BSPP Ports	7.5	$1,063.00
11185551	OMRX	200	198.2	305	60	150	1/2" BSPP Ports	8	$1,084.00
11185554	OMRX	250	248.1	240	60	125	1/2" BSPP Ports	8.5	$1,105.00
11185545	OMRX	315	310.1	195	60	100	1/2" BSPP Ports	9	$1,150.00
11185556	OMRX	375	363.5	165	60	80	1/2" BSPP Ports	9.5	$1,169.00

1" Splined Shaft - SAE (A-2) Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11185584	OMRX	50	51.6	775	40	150	1/2" BSPP Ports	6.7	$1,006.00
11185585	OMRX	80	80.3	750	60	200	1/2" BSPP Ports	6.9	$1,013.00
11185588	OMRX	100	99.8	600	60	200	1/2" BSPP Ports	7	$1,013.00
11185567	OMRX	125	124.1	475	60	200	1/2" BSPP Ports	7.2	$1,043.00
11185570	OMRX	160	155.4	385	60	180	1/2" BSPP Ports	7.5	$1,080.00
11185573	OMRX	200	198.2	305	60	150	1/2" BSPP Ports	8	$1,102.00
11185576	OMRX	250	248.1	240	60	125	1/2" BSPP Ports	8.5	$1,123.00
11185564	OMRX	315	310.1	195	60	100	1/2" BSPP Ports	9	$1,149.00
11185580	OMRX	375	363.5	165	60	80	1/2" BSPP Ports	9.5	$1,158.00

OMR / OMR X White Motors

SCAN OR CLICK TO VIEW

Low Speed High Torque (LSHT) Orbital Motors

1" Cylindrical Shaft - Type C Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11185584	OMR	50	51.6	775	40	150	7/8"-14 UNF Ports	6.1	$1,006.00
11185585	OMR	80	80.3	750	60	200	7/8"-14 UNF Ports	6.3	$1,013.00
11185588	OMR	100	99.8	600	60	200	7/8"-14 UNF Ports	6.4	$1,013.00
11185567	OMR	125	124.1	475	60	200	7/8"-14 UNF Ports	6.6	$1,043.00
11185570	OMR	160	155.4	385	60	180	7/8"-14 UNF Ports	6.9	$1,080.00
11185573	OMR	200	198.2	305	60	150	7/8"-14 UNF Ports	7.4	$1,102.00
11185576	OMR	250	248.1	240	60	125	7/8"-14 UNF Ports	7.9	$1,123.00
11185564	OMR	315	310.1	195	60	100	7/8"-14 UNF Ports	8.4	$1,149.00
11185580	OMR	375	363.5	165	60	80	7/8"-14 UNF Ports	8.9	$1,158.00

32mm Cylindrical Shaft - MAGNETO 4B Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
151-6000	OMRX	50	51.6	775	40	150	1/2" BSPP Ports	6.7	$1,141.00
151-6001	OMRX	80	80.3	750	60	200	1/2" BSPP Ports	6.9	$1,149.00
151-6002	OMRX	100	99.8	600	60	200	1/2" BSPP Ports	7	$1,156.00
151-6003	OMRX	125	124.1	475	60	200	1/2" BSPP Ports	7.2	$1,159.00
151-6004	OMRX	160	155.4	385	60	180	1/2" BSPP Ports	7.5	$1,184.00
151-6005	OMRX	200	198.2	305	60	150	1/2" BSPP Ports	8	$1,184.00
151-6006	OMRX	250	248.1	240	60	125	1/2" BSPP Ports	8.5	$1,213.00
151-6007	OMRX	315	310.1	195	60	100	1/2" BSPP Ports	9	$1,249.00
151-6008	OMRX	375	363.5	165	60	80	1/2" BSPP Ports	9.5	$1,289.00

1.25” Cylindrical Shaft - MAGNETO 4B Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
151-6110	OMRX	50	51.6	775	40	150	7/8"-14 UNF Ports	6.7	$1,141.00
151-6111	OMRX	80	80.3	750	60	200	7/8"-14 UNF Ports	6.9	$1,149.00
151-6112	OMRX	100	99.8	600	60	200	7/8"-14 UNF Ports	7	$1,156.00
151-6113	OMRX	125	124.1	475	60	200	7/8"-14 UNF Ports	7.2	$1,159.00
151-6114	OMRX	160	155.4	385	60	180	7/8"-14 UNF Ports	7.5	$1,184.00
151-6115	OMRX	200	198.2	305	60	150	7/8"-14 UNF Ports	8	$1,184.00
151-6116	OMRX	250	248.1	240	60	125	7/8"-14 UNF Ports	8.5	$1,213.00
151-6117	OMRX	315	310.1	195	60	100	7/8"-14 UNF Ports	9	$1,249.00
151-6118	OMRX	375	363.5	165	60	80	7/8"-14 UNF Ports	9.5	$1,289.00

OMR / OMR X White Motors

SCAN OR CLICK TO VIEW

Low Speed High Torque (LSHT) Orbital Motors

25mm Cylindrical Shaft - SAE (A-2) Mounting - with EMD Provision

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11095307	OMRX	50	51.6	775	40	150	1/2" BSPP Ports	6.7	TBA
11106113	OMRX	80	80.3	750	60	200	1/2" BSPP Ports	6.9	TBA
11106114	OMRX	100	99.8	600	60	200	1/2" BSPP Ports	7	TBA
11106115	OMRX	125	124.1	475	60	200	1/2" BSPP Ports	7.2	TBA
11106116	OMRX	160	155.4	385	60	180	1/2" BSPP Ports	7.5	TBA
11106117	OMRX	200	198.2	305	60	150	1/2" BSPP Ports	8	TBA
11106118	OMRX	250	248.1	240	60	125	1/2" BSPP Ports	8.5	TBA
11106119	OMRX	315	310.1	195	60	100	1/2" BSPP Ports	9	TBA
11106120	OMRX	375	363.5	165	60	80	1/2" BSPP Ports	9.5	TBA

1" Cylindrical Shaft - SAE (A2) Mounting - with EMD Provision

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
11185584	OMR	50	51.6	775	40	150	7/8"-14 UNF Ports	6.1	TBA
11185585	OMR	80	80.3	750	60	200	7/8"-14 UNF Ports	6.3	TBA
11185588	OMR	100	99.8	600	60	200	7/8"-14 UNF Ports	6.4	TBA
11185567	OMR	125	124.1	475	60	200	7/8"-14 UNF Ports	6.6	TBA
11185570	OMR	160	155.4	385	60	180	7/8"-14 UNF Ports	6.9	TBA
11185573	OMR	200	198.2	305	60	150	7/8"-14 UNF Ports	7.4	TBA
11185576	OMR	250	248.1	240	60	125	7/8"-14 UNF Ports	7.9	TBA
11185564	OMR	315	310.1	195	60	100	7/8"-14 UNF Ports	8.4	TBA
11185580	OMR	375	363.5	165	60	80	7/8"-14 UNF Ports	8.9	TBA

350 (WS Series) Motors

350 (ROTOR) (HOUSING) (SHAFT) AAAAA

Stock No.	Rotors (Displacement)		RPM	Max. Flow	Max Pressure	List Price
	cu.in/rev	cc/rev	per LPM	lpm	bar	
350100*****AAAAA	6.1	100	9.5	76	207	$ 1280.00
350110*****AAAAA	6.9	112	8.5	76	207	$ 1280.00
350130*****AAAAA	7.9	129	7.5	76	207	$ 1286.00
350160*****AAAAA	9.9	162	6	76	207	$ 1298.00
350200*****AAAAA	12.3	202	4.75	76	207	$ 1318.00
350230*****AAAAA	13.9	228	4.25	76	207	$ 1341.00
350320*****AAAAA	19.8	325	3	76	190	$ 1377.00
350400*****AAAAA	24.4	399	2.5	76	155	$ 1424.00
350500*****AAAAA	30.3	496	2	76	121	$ 1602.00
355355001	Seal Kit					$ 122.00

Housings	**Code**	**Add to List**
SAE A 2 Bolt (Side Ports)	A7	
SAE A 4 Bolt (Side Ports)	AH	$ 80.00
Side Ports	**Code**	
7/8” UN c/w 7/16” UN Drain	1	
1/2” BSPP Offset Manifold	3	
Output Shafts	**Code**	
1” Parallel 1/4” Key	10	
25mm Parallel 8mm Key	12	
1-1/4” Parallel 8mm Key	20	
6B Spline (1”)	02	
14 Tooth Spline (1-1/4”)	23	
32mm Parallel 10mm Key	21	

Note: Flow and pressure are continuous operation.
See catalogue for peak.

360 (WS Series) Motors

360 ( ) ( ) ( ) AAAAA

ROTOR HOUSING SHAFT

Stock No.	Rotors (Displacement)		RPM	Max. Flow	Max Pressure	List Price
	cu.in/rev	cc/rev	per LPM	lpm	bar	
360100*****AAAAA	6.1	100	9.5	76	207	$ 1280.00
360110*****AAAAA	6.9	112	8.5	76	207	$ 1280.00
360130*****AAAAA	7.9	129	7.5	76	207	$ 1286.00
360160*****AAAAA	9.9	162	6	76	207	$ 1298.00
360200*****AAAAA	12.3	202	4.75	76	207	$ 1318.00
360230*****AAAAA	13.9	228	4.25	76	207	$ 1341.00
360320*****AAAAA	19.8	325	3	76	190	$ 1377.00
360400*****AAAAA	24.4	399	2.5	76	155	$ 1424.00
360500*****AAAAA	30.3	496	2	76	121	$ 1602.00
355355001	Seal Kit					$ 122.00

Housings	**Code**	**Add to List**
SAE A 2 Bolt (Side Ports)	A7	
SAE A 4 Bolt (Side Ports)	AH	$ 80.00
SAE A 6 Hole	AT	
SAE B	B7	$ 103.00
Wheel Mount euro 125mm Spigot	Z8	$ 103.00
Side Ports	**Code**	
7/8” UN c/w 7/16” UN Drain	1	
1/2” BSPP Offset Manifold	3	
Output Shafts	**Code**	
1” Parallel 1/4” Key	10	
25mm Parallel 8mm Key	12	
1-1/4” Parallel 8mm Key	20	
6B Spline (1”)	G4	
14 Tooth Spline (1-1/4”)	23	
35mm Tapered	N4	$ 80.00
32mm Parallel 10mm Key	21	
1-1/2” Tapered	31	$ 80.00
1-3/8” 6B Spline PTO	78	$ 80.00

Note: Flow and pressure are continuous operation.
See catalogue for peak.

505/506 (RE Series) Motors

505 ( ) ( ) ( ) AAAAA

ROTOR HOUSING SHAFT

Stock No.	Rotors (Displacement)		Rotor Width	RPM per LPM	Max.Flow	Max. Pressure	List Price
	cu.in/rev	cc/rev	inches		lpm	bar	
505120*****	7.4	121	0.541	8.2	45	210	$ 1300.00
505160*****	9.9	162	0.541	6.2	64	210	$ 1300.00
505200*****	12.4	204	0.681	4.9	76	210	$ 1300.00
505230*****	14.2	232	0.777	4.3	76	210	$ 1300.00
505260*****	15.9	261	0.872	3.8	95	210	$ 1350.00
505300*****	18.3	300	1.001	3.3	95	210	$ 1450.00
505350*****	21.2	348	1.552	2.9	95	210	$ 1450.00
505375*****	22.8	375	1.251	2.7	95	210	$ 1450.00
505470*****	28.3	465	1.552	2.2	95	175	$ 1550.00
505540*****	32.7	536	1.791	1.9	95	140	$ 1750.00
505620*****	38.5	631	-	1.6	95	121	$ 1800.00
505750*****	45.6	748	2.501	1.3	95	105	$ 1800.00
500444505	Seal Kit						$ 200.00

Mount & Port Options	Code	Add to List
4-Hole, Magneto Mount, Aligned Ports, 7/8-14 UNF	A31	
4-Hole, Magneto Mount, Aligned Ports, G 1/2	A38	
6-Hole, SAE A Mount, Aligned Ports, 7/8-14 UNF	A51	
6-Hole, SAE A Mount, Aligned Ports, G 1/2	A58	
4-Hole, Wheel Mount, Aligned Ports, 7/8-14 UNF	W31	$ 220.00
4-Hole, Wheel Mount, Aligned Ports, G 1/2	W38	$ 220.00
► Speed sensor option is not available with wheel mounts		
Shaft Options	**Code**	
1” 6B Spline	02	
1” 6B Spline Extended	03	
1-1/4” Straight Extended	07	
32mm Straight	08	$ 75.00
14 Tooth Spline Extended	09	
1” Straight ~ PE011201	10	
25mm Straight ~ PE011109	12	
1” Straight Extended ~ PE011206	15	
1-1/4” Straight ~ PE011200	20	
32mm Straight ~ PE011203	21	$ 75.00
1-1/4” Tapered ~ PE011300	22	
14 Tooth Spline ~ PE011101	23	
1-1/4” Tapered Extended	25	

Valve Cavity / Cartridge Options	Code	Add to List
None	A	
Valve Cavity Only	B	$ 165.00
69 Bar (1000 psi) Relief	C	$ 275.00
86 Bar (1250 psi) Relief	D	$ 275.00
104 Bar (1500 psi) Relief	E	$ 275.00
121 Bar (1750 psi) Relief	**F**	$ 275.00
138 Bar (2000 psi) Relief	G	$ 275.00
► Valve cavity is not available on the A51 & A58 housings.		
Add-On Options	**Code**	
Standard	A	
Lock Nut	B	
Solid Hex Nut	C	
Speed Sensor, Dual, 4-Pin Male Weatherpack Connector	W	$ 857.00
Speed Sensor, Dual, 4-Pin M12 Male Connector	X	$ 857.00
Speed Sensor, Single, 3-Pin Male Weatherpack Connector	Y	$ 857.00
Speed Sensor, Single, 4-Pin M12 Male Connector	Z	$ 857.00
Miscellaneous Options	**Code**	
None	AA	
Freeturning Rotor	AC	$ 95.00
Hydraulic Declutch With Freeturning Rotor	AE	$ 1443.00

OMH White Motors

SCAN OR CLICK TO VIEW

Low Speed High Torque (LSHT) Orbital Motors

1-1/4" Splined Shaft - MAGNETO 4 Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
151H1022	OMH	200	201.3	370	75	175	1/2" BSPP Ports	10.5	$1,636.00
151H1023	OMH	250	252	295	75	175	1/2" BSPP Ports	11	$1,664.00
151H1024	OMH	315	314.5	235	75	175	1/2" BSPP Ports	11.5	$1,688.00
151H1025	OMH	400	396.8	185	75	155	1/2" BSPP Ports	12.3	$1,757.00
151H1026	OMH	500	470.6	155	75	125	1/2" BSPP Ports	13.6	$1,793.00

1-1/4" Cylindrical Shaft - MAGNETO 4 Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
151H1042	OMH	200	201.3	370	75	175	7/8"UNO Ports	10.5	$1,636.00
151H1043	OMH	250	252	295	75	175	7/8"UNO Ports	11	$1,664.00
151H1044	OMH	315	314.5	235	75	175	7/8"UNO Ports	11.5	$1,688.00
151H1045	OMH	400	396.8	185	75	155	7/8"UNO Ports	12.3	$1,757.00
151H1046	OMH	500	470.6	155	75	125	7/8"UNO Ports	13.6	$1,793.00

32mm Cylindrical Shaft - MAGNETO 4 Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
151H1002	OMH	200	201.3	370	75	175	1/2" BSPP Ports	10.5	$1,636.00
151H1003	OMH	250	252	295	75	175	1/2" BSPP Ports	11	$1,664.00
151H1004	OMH	315	314.5	235	75	175	1/2" BSPP Ports	11.5	$1,688.00
151H1005	OMH	400	396.8	185	75	155	1/2" BSPP Ports	12.3	$1,757.00
151H1006	OMH	500	470.6	155	75	125	1/2" BSPP Ports	13.6	$1,793.00

OMH White Motors

SCAN OR CLICK TO VIEW

Low Speed High Torque (LSHT) Orbital Motors

35mm Cylindrical Shaft - MAGNETO 4 Mounting - Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
151H1012	OMH	200	201.3	370	75	175	1/2" BSPP Ports	10.5	$1,660.00
151H1013	OMH	250	252	295	75	175	1/2" BSPP Ports	11	$1,677.00
151H1014	OMH	315	314.5	235	75	175	1/2" BSPP Ports	11.5	$1,725.00
151H1015	OMH	400	396.8	185	75	155	1/2" BSPP Ports	12.3	$1,769.00
151H1016	OMH	500	470.6	155	75	125	1/2" BSPP Ports	13.6	$1,809.00

1.00" 6B Spline Shaft - MAGNETO 4 Mounting-Standard Range

Stock No	Type	Size (cc)	Displacement (cc/rev)	Max Speed (RPM Cont.)	Max Flow (l/min Cont.)	Max Pressure Bar Cont.	Ports	Weight (Kgs)	List Price
151H1080	OMH	200	201.3	370	75	175	1/2" BSPP Ports	10.5	$1,660.00
151H1082	OMH	250	252	295	75	175	1/2" BSPP Ports	11	$1,677.00
151H1083	OMH	315	314.5	235	75	175	1/2" BSPP Ports	11.5	$1,725.00
151H1084	OMH	400	396.8	185	75	155	1/2" BSPP Ports	12.3	$1,769.00
151H1081	OMH	500	470.6	155	75	125	1/2" BSPP Ports	13.6	$1,809.00

600 (DR Series) Motors

600 ( ) ( ) ( ) AAAAA

ROTOR HOUSING SHAFT

Stock No.	Rotors (Displacement)		Rotor Width	RPM per LPM	Max.Flow	Max. Pressure	List Price
	cu.in/rev	cc/rev	inches		lpm	bar	
600200****AAAAA	12.0	204	0.69	4.2	114	210	$ 1669.00
600260****AAAAA	15.9	261	0.872	3.8	127	210	$ 1687.00
600300****AAAAA	18.3	300	1.001	3.3	135	210	$ 1703.00
600350****AAAAA	21.2	348	1.55	3.0	135	210	$ 1756.00
600375****AAAAA	22.8	375	1.251	2.7	135	210	$ 1844.00
600470****AAAAA	28.3	465	1.552	2.2	150	175	$ 1921.00
600540****AAAAA	32.7	536	1.791	1.9	150	140	$ 1932.00
600750****AAAAA	45.6	748	2.501	1.3	150	105	$ 2054.00
600555000	Seal Kit						$ 214.00

Housings	Code	Add to List
SAE 'A' Style Flange (4 Hole Mount)	A8	-
Setback Flange (Wheel Motor)	W8	$ 350.00
Output Shafts	**'A' Style & Setback**	
1-1/4" Tapered	22	-
1-1/4" Straight	20	-
1" Straight	10	-
6B Spline (1" Dia)	02	-
14 Tooth Spline (1-1/4" Dia)	23	-
25mm Straight (7mm Key)	12	-
32mm Straight	21	$ 72.00
End Cover	**Code**	**Add to List**
Manifold Ports, D-Shaped	3	-
1-1/16-12 UN-2B O-Ring Ports, Round	5	-
1-1/16-12 UN-2B O-Ring Ports, D-Shaped	6	-
3/4-14 BSP.F Ports, Round	7	-
Options	**Code**	**Add to List**
Relief Valve End Cover (#5 & #7 End Covers Only)	-	$ 114.00
3000 PSI Relief Valve Installed	L	$ 194.00
Shuttle Valve (#3, #5 & #7 End Covers Only)	B	$ 114.00

HB (300 Series) Motors

HB □□ □□□□ □□

ROTOR HOUSING — OUTPUT — OPTIONS — END COVER

Stock No.	Rotors (Displacement)		Rotor Width	RPM per LPM	Max.Flow	Max. Pressure	List Price
	cu.in/rev	cc/rev	inches		lpm	bar	
HB03**5600	3.2	52	0.317	19.3	45	210	$ 1213.00
HB04**5600	4.6	76	0.463	13.2	68	210	$ 1220.00
HB05**5600	5.4	89	0.541	11.4	79	210	$ 1228.00
HB06**5600	6.8	111	0.681	9.0	95	210	$ 1228.00
HB08**5600	7.7	127	0.776	7.9	95	210	$ 1237.00
HB10**5600	10.0	164	1.001	6.1	95	210	$ 1254.00
HB12**5600	12.5	205	1.251	5.0	95	210	$ 1294.00
HB14**5600	15.5	254	1.551	4.0	95	210	$ 1325.00
HB18**5600	17.9	293	1.791	3.4	95	210	$ 1389.00
HB24**5600	24.9	409	2.501	2.4	95	170	$ 1464.00
300333900	Seal Kit						$ 135.00

Housings	Code	Add to List	Brake Code	Add To List
SAE 'A' Style Flange (2 Hole Mount)	56	-	-	-
SAE 'A' Style Flange (4 Hole Mount)	58	-	-	-
SAE 'A' Style Flange (6 Hole Mount)	59	-	-	-
Four Hole Square Mount	15	-	-	-
Four Hole With Mid Mount	17	$ 115.00	-	-
Setback Flange (Wheel Motor)	07	$ 148.00	-	-
Setback Flange (Wheel Motor With Brake Mount)	11	$ 229.00	-	-
Setback Flange (Hubdrum Motor, Uses #51 Shaft)	24	$ 317.00	-	-
Setback Flange With 125mm Pilot, (Uses #70 Shaft Only)	29	$ 148.00	-	-
Short Brake W/O Trunnion Mount (Uses #63, #64 & #79 Shafts)	-	-	44	$ 1254.00
Short Brake With Trunnion Mount (Uses #63, #64 & #79 Shafts)	-	-	45	$ 1254.00
Short Brake With Top Ports (Uses #63, #64 & #79 Shafts)	-	-	46	$ 1254.00
Brake, 7.115" Dia Pilot (Uses #61 Shaft Only)	-	-	54	$ 1504.00
Short Motor (Uses #00 Shaft Only)	01	P.O.A.	-	-

Output Shafts	Code	Add to List	Brake Code	Add To List
No Shaft (For Use With #01 Housing Only)	00	-	-	-
1" Straight	56	-	-	-
1-1/4" Straight	54	-	-	-
25mm Straight	57	-	-	-
32mm Straight	59	-	-	-
35mm Tapered (#29 Setback Housing Only) (Specify Nut Option)	70	$ 130.00	-	-
35mm Tapered (#44, #45 & #46 Housing Only) (Specify Nut Option)	-	-	79	$ 130.00
1-1/4" Tapered (Specify Nut Option)	53	-	-	-
1-1/4" Tapered (#44, #45 & #46 Housing Only) (Specify Nut Option)	-	-	63	$ 130.00
1-1/4" Tapered (#24 Hubdrum Housing Only) (Specify Nut Option)	60	$ 130.00	-	-
1-1/2" Tapered (#54 Brake Housing Only)	-	-	61	$ 130.00
1-1/2" Tapered (#24 Hubdrum Housing Only)	51	$ 130.00	-	-
1-1/2" Tapered (#44, #45 & #46 Housing Only)	-	-	64	$ 130.00
6B Spline (1" Dia)	52	-	-	-
13 Tooth Spline (7/8" Dia)	50	-	-	-
14 Tooth Spline (1-1/4" Dia)	55	-	75	$ 130.00

End Cover	Code	Add to List
1/2-14 BSP.F Offset Manifold	9	$ 99.00
1/2-14 BSP.F Rear Ports	3	-
1/2-14 BSP.F 180 Degree Side Ports	2	$ 47.00
1/2-14 BSP.F Offset Ports	8	$ 99.00
7/8-14 UNF-2B O-Ring Rear Ports	7	-
7/8-14 UNF-2B O-Ring Offset Ports	6	-
1-1/16-12 UN-2B 180 Degree Side Ports	1	$ 47.00
9/16-18 UN-2B O-Ring Side Ports	0	-

Options	Code	Add to List
No Options	0	-
Shuttle Valve	D	$ 99.00
Pack Nut (1-1/4" Tapered Shaft Only)	P	-
Brake & Drum (#24 Housing, #51 Shaft Only)	K	P.O.A.
Brake Shoes W/O Drum (#24 Housing, #51 Shaft Only)	V	P.O.A.
Drum W/O Brake Shoes (#24 Housing, #51 Shaft Only)	U	P.O.A.
Cross Flow End Cover (#0 & #7 End Covers Only)	G	$ 39.00
Free Turning	F	$ 79.00
Solid Nut (1-1/4" Tapered Shaft Only)	X	-
Relief Valve Port End Cover (#0 & #7 End Covers Only)	R	$ 99.00
3000 PSI Relief Valve Installed (#0 & #7 End Covers Only)	R3	$ 168.00

DT (700 Series) Motors

DT □□ □□□□ □□

ROTOR HOUSING — OUTPUT — END COVER — OPTIONS

Stock No.	Rotors (Displacement)		Rotor Width	RPM per LPM	Max.Flow	Max. Pressure	List Price
	cu.in/rev	cc/rev	inches		lpm	bar	
DT19****00	18.3	300	1.001	3.30	132	210	$ 2298.00
DT25****00	22.8	375	1.251	2.70	132	210	$ 2389.00
DT28****00	28.3	465	1.552	2.20	150	175	$ 2438.00
DT33****00	32.7	536	1.791	1.90	150	160	$ 2508.00
DT46****00	45.6	748	2.501	1.30	150	160	$ 2716.00
DT56****00	56.7	929	3.104	1.10	150	140	$ 2875.00
DT66****00	63.9	1048	3.501	1.00	150	140	$ 3036.00
DT91****00	91.2	1496	5.002	0.67	150	100	$ 3402.00
DT99****00	127.7	2049	7.002	0.48	150	100	$ 3769.00
700666251	Seal Kit						$ 239.00

Housings	Code	Add to List	Brake Code	Add To List
SAE 'C' Front Mount With 6.00" Dia B.C. Rear Mount	06	-	-	-
SAE 'C' Front Mount With 6.00" Dia B.C. & 125mm Pilot	07	-	-	-
SAE 'C' Front Mount With 8.25" Dia B.C. Rear Mount	16	$ 670.00	-	-
Brake, 7.115" Dia Pilot (Uses #29 & #30 Shaft Only)	-	-	33	$ 1312.00
125mm 6-Bolt (Uses #07 & #18 Shafts and #5 & #7 End Covers)	03	P.O.A.	-	-
Output Shafts	**Code**	**Add to List**	**Brake Code**	**Add To List**
1-1/2" Tapered	20	-	-	-
55mm Tapered (#23 Brake Housing Only)	-	-	30	-
60mm Tapered	23	-	-	-
1-1/2" Straight (European)	22	-	-	-
1-1/2" Straight (USA)	32	-	-	-
2.00" Straight (#23 Brake Housing Only)	-	-	29	-
2-1/4" Straight	25	-	-	-
40mm Straight	24	-	-	-
50mm Straight	21	-	-	-
14 Tooth Spline (1-1/4" Dia)	36	-	-	-
17 Tooth Spline (European) (1-1/2" Dia)	28	-	-	-
17 Tooth Spline (USA) (1-1/2" Dia)	38	-	-	-
16 Tooth Spline (2-1/8" Dia)	26	-	-	-
19 Tooth Spline (For #03 Housing With Warn Hub)	07	-	-	-
23 Tooth Spline (For #03 Housing Without Warn Hub)	18	-	-	-
End Cover			**Code**	**Add to List**
Manifold Ports, D-Shaped			3	-
1-1/16-12 UN-2B O-Ring Ports, Round			5	-
1-1/16-12 UN-2B O-Ring Ports, D-Shaped			8	-
3/4-14 BSP.F Ports, Round			7	-
3/4-14 BSP.F Ports, D-Shaped			9	-
7/8 O-Ring Rear Ports, Round			0	-
Options			**Code**	**Add to List**
No Options			0	-
Speed Sensor (Single)			Z	$ 669.00
Speed Sensor (Dual) Consult Cross for Availability			Q	P.O.A.
Shuttle Valve (#3, #5 & #7 End Covers Only)			D	$ 92.00
Relief Valve Port End Cover (#5 & #7 End Covers Only)			R	$ 92.00
1000 PSI Relief Valve Installed (#5 & #7 End Covers Only)			R1	$ 157.00
2000 PSI Relief Valve Installed (#5 & #7 End Covers Only)			R2	$ 157.00
3000 PSI Relief Valve Installed (#5 & #7 End Covers Only)			R3	$ 157.00
Free Turning (Recommended For Industrial Use)			F	$ 73.00
Warn Hub (For #03 Housing With #07 Shaft Only)			W	P.O.A.

800 (D9 Series) Motors

Stock No.	Rotors (Displacement)		RPM	Max. Flow	Max Pressure	List Price
	cu.in/rev	cc/rev	per LPM	lpm	bar	
800260*****AAAAA	15.6	256	3.75	136	207	$ 3444.00
800300*****AAAAA	17.9	294	3.25	159	207	$ 3612.00
800375*****AAAAA	22.4	367	2.62	204	207	$ 3737.00
800450*****AAAAA	27.8	455	2.12	204	207	$ 3800.00
800525*****AAAAA	32.1	525	1.87	204	207	$ 3924.00
800625*****AAAAA	38.1	623	1.62	204	207	$ 4174.00
800735*****AAAAA	44.8	734	1.37	204	172	$ 4235.00
800910*****AAAAA	55.6	911	1.12	204	172	$ 4298.00
8001K0*****AAAAA	62.7	1027	1.00	204	138	$ 4422.00
80088200	Seal Kit					$ 405.00

Housings	**Code**	**Add to List**
SAE C 4 Bolt 5” Pilot	C8	-
Wheel Mount 4 Hole	W8	$ 241.00
Side Ports	**Code**	
3/4” BSPP	7	-
1-5/16” UN	9	-
Output Shafts	**Code**	
14 Tooth Spline (1-1/4”) *	23	-
1-1/2” Parallel 3/8” Key *	30	-
17 Tooth Spline (1-1/2”) *	33	-
2-1/4” Parallel 1/2” Key *	40	-
45mm Tapered **	38	-
60mm Tapered **	D3	-
2-1/4” Parallel 1/2” Key **	47	$ 135.00
16 Tooth Spline	42	-
1-3/8” 6B Spline *	78	-
1-3/8” 6B Spline **	46	-
* C8 Housing only. ** W8 Housing only.		

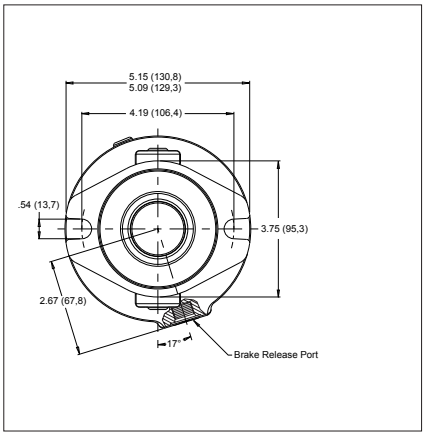
Note: Flow and pressure are continuous operation.
See catalogue for peak.

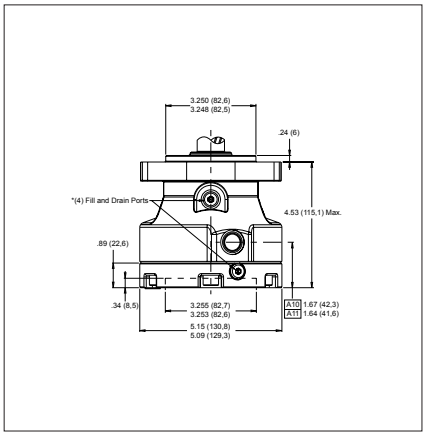
930 (SB Series) Brakes

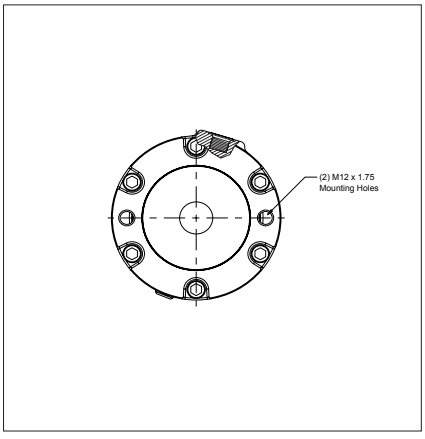
930 — HOLDING TORQUE — HOUSINGS — SHAFT

Stock No.	Holding Torque		Max. Release Pressure		Full Release Pressure		Mounting Flange	List Price
	lb - in	Nm	PSI	Bar	PSI	Bar		
930225A11**	2000	225	3625	250	290	20	SAE 'A'	$ 737.00
930315A11**	2800	315	3625	250	290	20	SAE 'A'	$ 737.00
930415A11**	3700	415	3625	250	290	20	SAE 'A'	$ 737.00
930520A11**	4600	520	3625	250	450	31	SAE 'A'	$ 737.00
930620A11**	5500	620	3625	250	450	31	SAE 'A'	$ 737.00

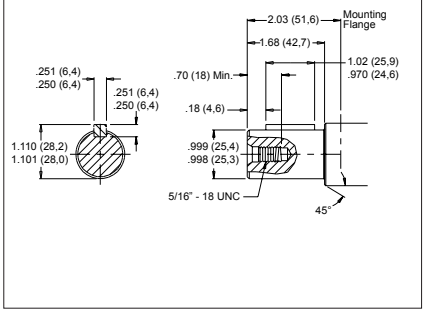
Housings	
A11	SAE ' A' 2 Hole 1/4" BSPP Release Port
A31	SAE ' A' 4 Hole 1/4" BSPP Release Port
Shafts	
ZW	1" Parallel Output with 1" 6B Splined Input
ZZ	1" 6B Splined Output with 1" 6B Splined Input
ZU	32mm Parallel Output with 1" 6B Splined Input



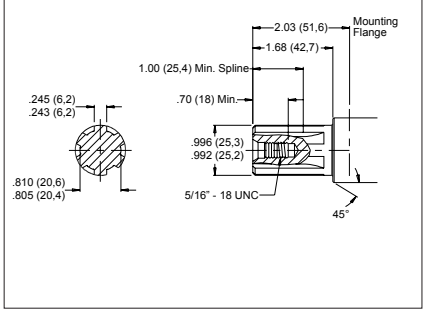




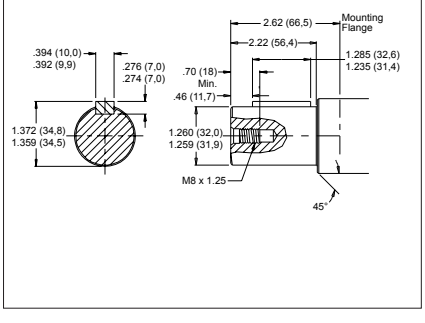
ZW 1" Straight Output w/ 6-B Spline Input



ZZ 6-B Spline Output w/ 6-B Spline Input



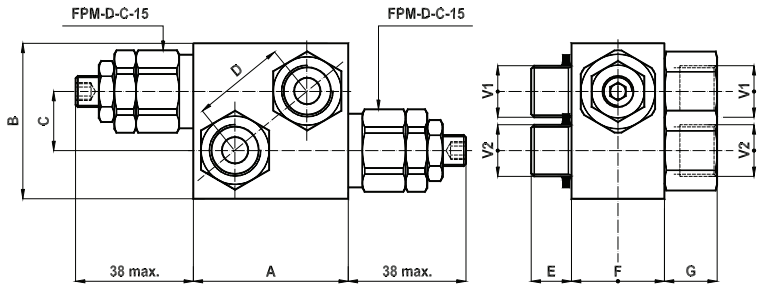
ZU 32mm Straight Output w/ 6-B Spline Input



Flangeable Valves

Cross Line Relief Valve suit Danfoss OMM, White WM

Stock No.	Description	Max. Flow	Max. Pressure	Weight	Body	List Price
FPMD15DVD1P3820	Cross Line Relief Valve	15 LPM	350 BAR	0.55 kg	Aluminium	$ 170.00

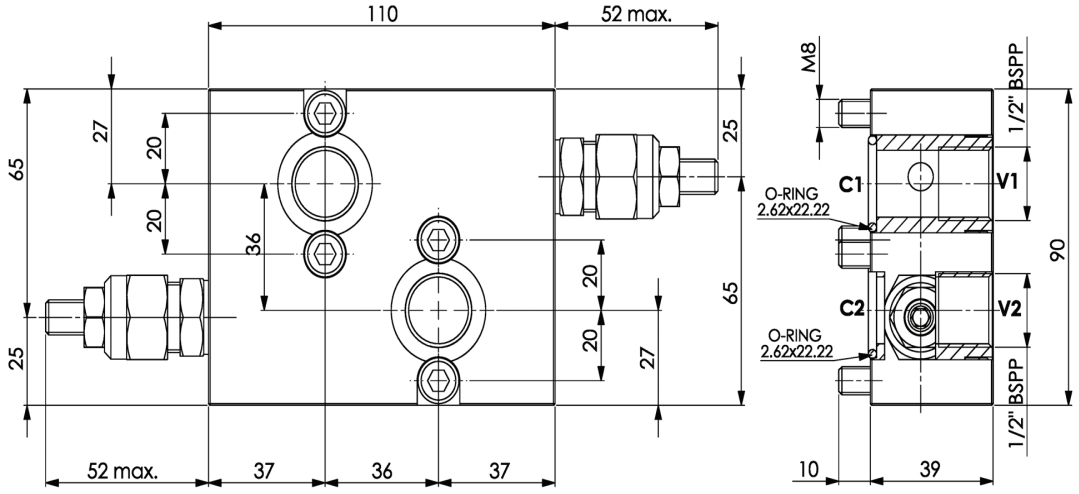


Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-60	15	5	White
10	20-130	30	20	Yellow
20	40-240	65	40	Green
35	50-350	100	50	Red

Type	V1 & V2 BSPP	A mm	B mm	C mm	D mm	E mm	F mm	G mm
FPMD15DVD1P 3/8	3/8”	50	50	19	30.4	13	30	17

Cross Line Relief Valve suit Danfoss OMP/R/H

Stock No.	Description	Max. Flow	Max. Pressure	Weight	Body	List Price
FPMD40DFD2P1220	Cross Line Relief Valve	50 LPM	350 BAR	1.25 kg	Aluminium	$ 189.00

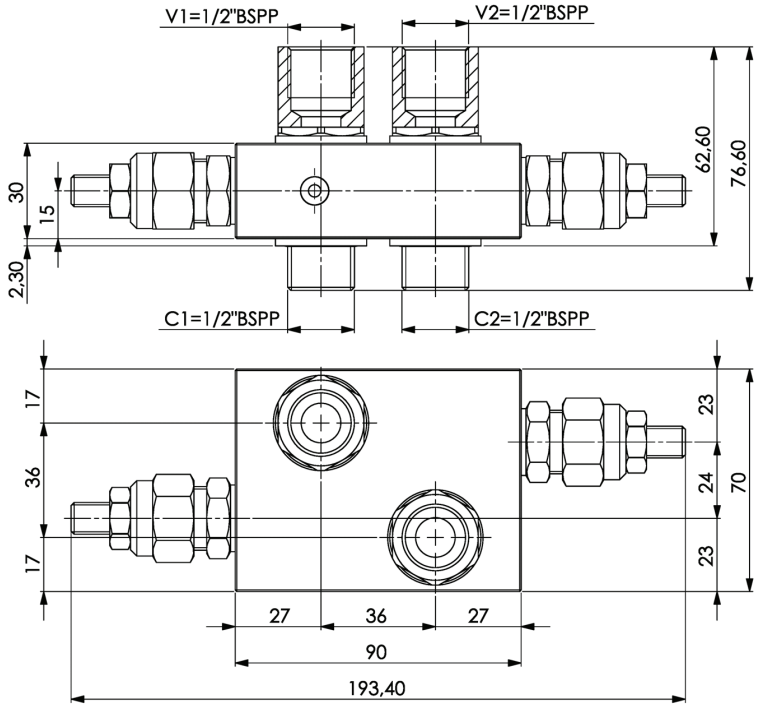


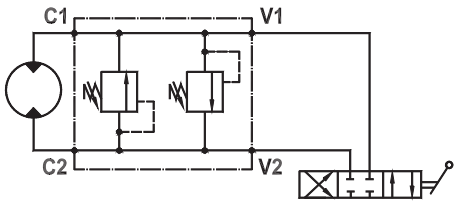
Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	50-220	40	50	Green
35	80-350	80	80	Red

Flangeable Valves

Cross Line Relief Valve suit Danfoss OMP/R/H, White WP/WR

Stock No.	Description	Max. Flow	Max. Pressure	Weight	Body	List Price
FPMD40DVD2P1220	Cross Line Relief Valve	50 LPM	350 BAR	1.05 kg	Aluminium	$ 189.00

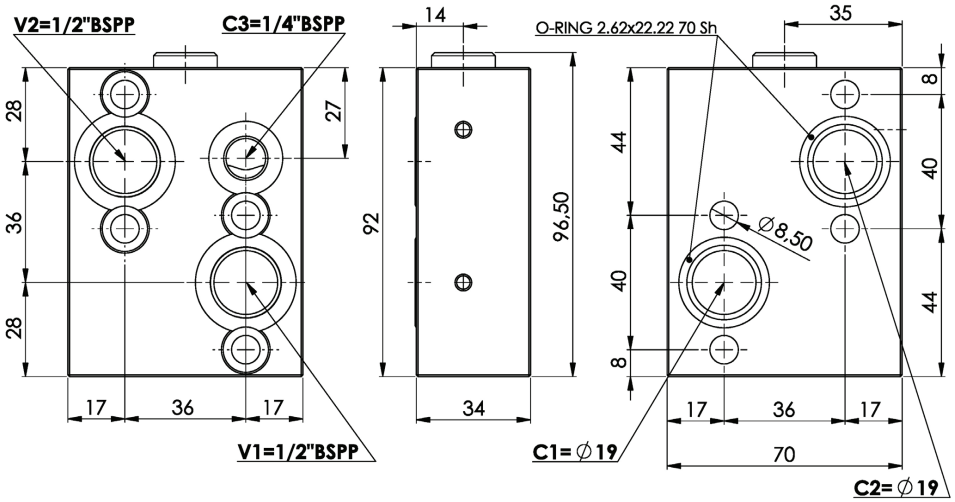


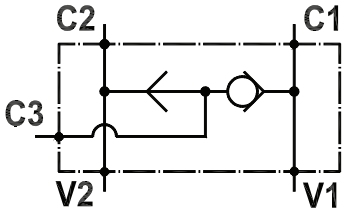


Springs				
Code *	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
05	5-50	10	5	White
10	30-100	20	30	Yellow
20	50-220	40	50	Green
35	80-350	80	80	Red

Shuttle Valve suit Danfoss OMP/R/H, White WP/WR

Stock No.	Description	Max. Flow	Max. Pressure	Weight	Body	List Price
FPTDFD212	Shuttle Valve	60 LPM	210 BAR	0.47 kg	Aluminium	$ 129.00

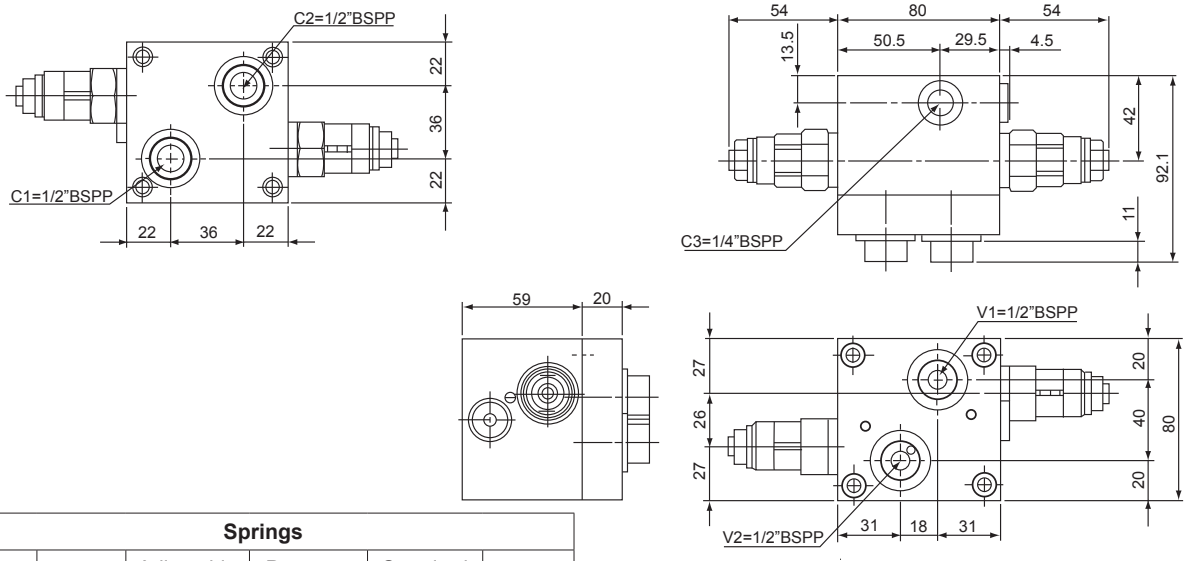




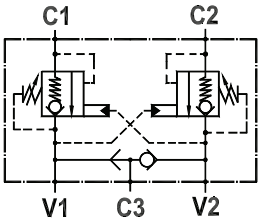
Flangeable Valves

Double Overcentre Valve with Brake Release suit Danfoss OMP/R/H, White WP/WR

Stock No.	Description	Max. Flow	Max. Pressure	Weight	Body	List Price
FPO60DVD212U20	Double Overcentre Valve	60 LPM	350 BAR	2.00 kg	Aluminium	$ 422.00



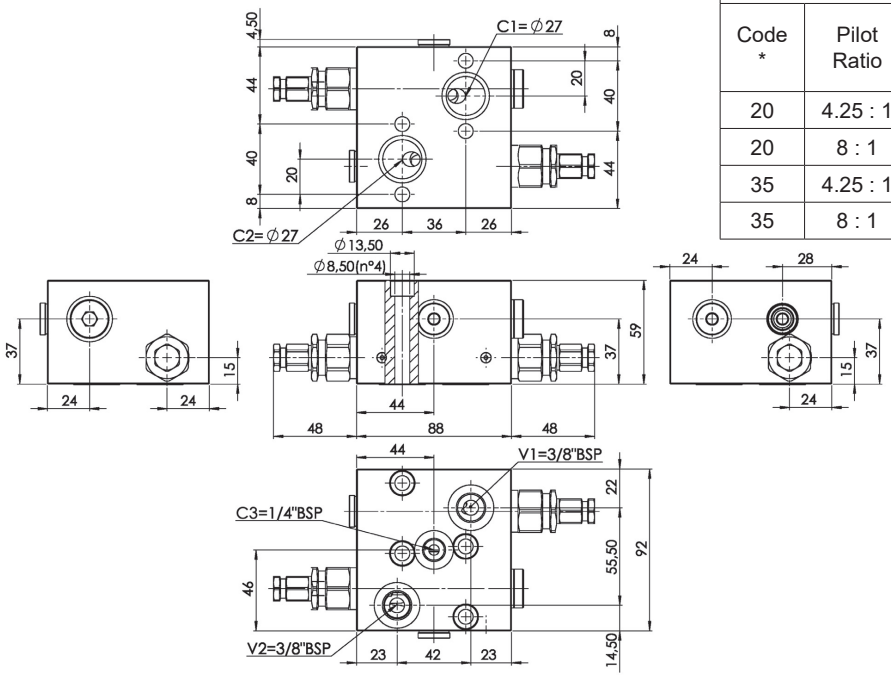
Springs					
Code *	Pilot Ratio	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
20	4 : 1	60-220	50	170	Green
20	8 : 1	60-220	50	170	Green
35	4 : 1	100-350	110	280	Red
35	8 : 1	100-350	110	280	Red

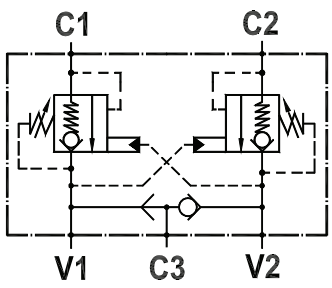


Double Overcentre Valve with Brake Release suit Danfoss OMP/R/H, White WP/WR

Stock No.	Description	Max. Flow	Max. Pressure	Weight	Body	List Price
FPO50DFD238U20	Double Overcentre Valve	60 LPM	350 BAR	2.00 kg	Aluminium	$ 365.00

Springs					
Code *	Pilot Ratio	Adjustable pressure range bar	Pressure increase bar/turn	Standard setting bar	Colour
20	4.25 : 1	60-220	70	170	Green
20	8 : 1	60-220	50	170	Green
35	4.25 : 1	100-350	120	280	Red
35	8 : 1	100-350	85	280	Red





FD (950 Series) Flow Dividers

White 'Roller Stator' Rotary Flow Dividers

Stock No.	Type	Description	Port Configurations		Flow Rate GPM	Dim 'Y'		Dim 'X'		List Price
			Inlets	Outlets		in	mm	in	mm	
FD00101000	2 Way	Rotary Flow Divider	1	2	2 - 10	7.31	185.7	2.35	59.6	$ 1700.00
FD00181800	2 Way	Rotary Flow Divider	1	2	10 - 30	8.23	209.0	2.81	71.3	$ 1700.00
FD00242400	2 Way	Rotary Flow Divider	1	2	30 - 40	8.73	221.7	3.06	77.7	$ 1800.00
FD00181818	3 Way	Rotary Flow Divider	1	3	4 - 40	10.92	277.4	-	-	$ 3000.00
FD18181818	4 Way	Rotary Flow Divider	2*	4	5 - 50	15.48	393.2	-	-	$ 4500.00
* Both inlets must be used.										

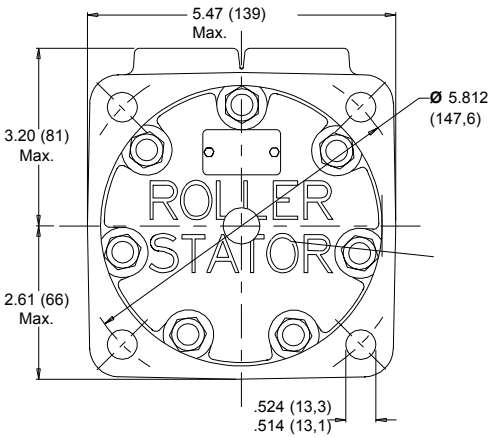
Flow Divider Features

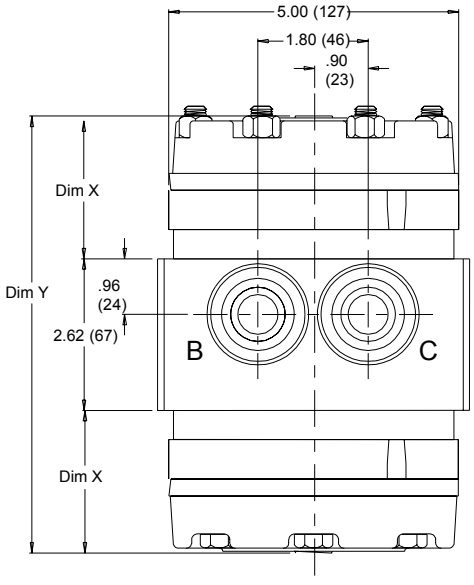
The White Hydraulics' flow dividers offer many advantages over other designs. All flow dividers utilise White Hydraulics' patented Roller Stator Design. This design incorporates rollers for the critical sealing points of the rotor assembly. Benefits of this design include minimised leakage and less internal friction which result in higher mechanical and volumetric efficiency than other designs. The use of the Roller Stator design also guarantees more accurate output flows when pressure differentials are present at the outputs. The White Hydraulics' flow dividers are also significantly quieter than many current designs, offering an advantage where application noise levels are critical.

The White Hydraulics' flow dividers are available in 2, 3 and 4-way dividers with a large number of output ratios available. Output flows are available up to 50 GPM with operating pressures up to 4,000 psi peak.

Features:
- Three Zone Rotor Set
- Accurate Output Flows
- Smooth Output Delivery
- Quiet Operation
- Up To 50 GPM Flows

Options:
- 2, 3 And 4 Way Dividers
- Numerous Output Ratios





P Series Flow Dividers

Delta 'P' Series Rotaty Flow Dividers

Stock No.	Description	No. of Sections	Total Max Inlet (GPM)	0-PSI Disp. Per Section (Gal/Rev)	Slip* (GPM / 100 PSI)	Max. Press. Intermittent (PSI)	Max. Press. Continuous (PSI)	Bolt Torque (Ft-Lb)	Max. Diff. Between Section (PSI)	List Price
PM2	Rotary Flow Divider	2	3.5	0.00047	0.026	2500	2000	13-17	1500	$ 572.00
PM6	Rotary Flow Divider	2	9.5	0.00137	0.038	2000	1500	13-17	1000	$ 629.00
P23	Rotary Flow Divider	2	21.0	0.00304	0.066	2000	1500	24-31	1000	$ 911.00
P27	Rotary Flow Divider	2	44.0	0.00633	0.113	2000	1500	24-31	1000	$ 1048.00
P43	Rotary Flow Divider	2	70.0	0.0102	0.135	2000	1500	24-31	1000	$ 1506.00
P47	Rotary Flow Divider	2	100.0	0.0169	0.210	2000	1500	24-31	1000	$ 1780.00
PPM2	Rotary Flow Divider	4	7.0	0.00047	0.026	2000	1500	13-17	1000	$ 1098.00

*Values shown are for single section only.

PM2 & PM6

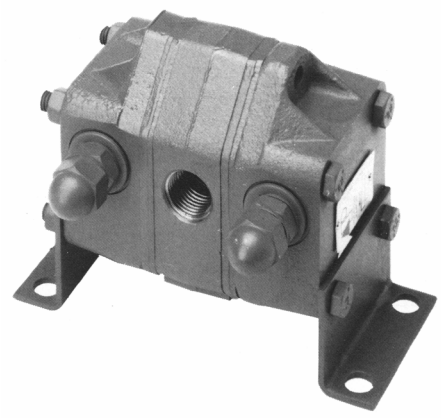
P23 & P27

P43 & P47

Delta 'P' Series Rotaty Flow Dividers With Relief

Stock No.	Description	No. of Sections	Total Max Inlet (GPM)	0-PSI Disp. Per Section (Gal/Rev)	Slip* (GPM / 100 PSI)	Max. Press. Intermittent (PSI)	Max. Press. Continuous (PSI)	Bolt Torque (Ft-Lb)	Max. Diff. Between Section (PSI)	List Price
PM2RV	Rotary Flow Divider with Relief Valve	2	3.5	0.00047	0.026	2500	2000	13-17	1500	$ 825.00
PM6RV		2	9.5	0.00137	0.038	2000	1500	13-17	1000	$ 867.00
PPM2RV		4	7.0	0.00047	0.026	2000	1500	13-17	1000	$ 1647.00

*Values shown are for single section only.



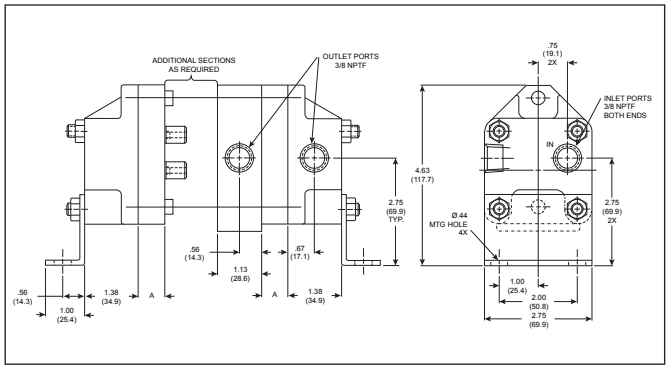
PM & P Series Flow Dividers

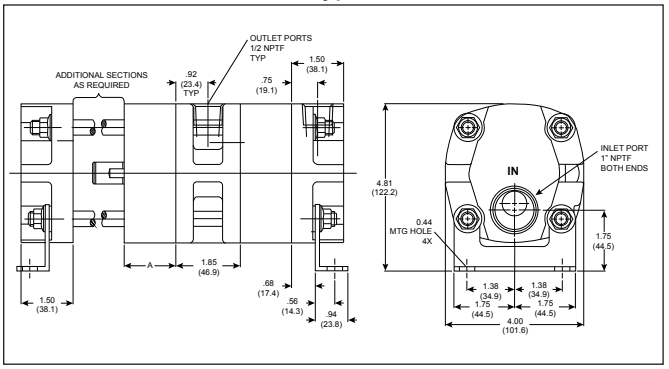
Delta 'PM' & 'P' Series Rotaty Flow Dividers

Stock No.	Description	No. of Sections	Total Max Inlet (GPM)	0-PSI Disp. Per Section		Slip* (GPM / 100 PSI)	Max. Press. Intermittent (PSI)	Max. Press. Continuous (PSI)	Bolt Torque (Ft-Lb)	Max. Diff. Between Section (PSI)	List Price
				CU IN REV	CC REV						
PM44	Rotary Flow Divider	2	6	0.18	3	0.020	2000	1500	24.31	1000	$ 720.00
PM444	Rotary Flow Divider	3	9	0.18	3	0.020	2000	1500	24.31	1000	$ 995.00
PM4444	Rotary Flow Divider	4	12	0.18	3	0.020	2000	1500	24.31	1000	$ 1270.00
PM66	Rotary Flow Divider	2	9	0.32	5.2	0.025	2000	1500	24.31	1000	$ 720.00
PM666	Rotary Flow Divider	3	14	0.32	5.2	0.025	2000	1500	24.31	1000	$ 995.00
PM6666	Rotary Flow Divider	4	19	0.32	5.2	0.025	2000	1500	24.31	1000	$ 1270.00
PM88	Rotary Flow Divider	2	7	0.46	7.6	0.030	2000	1500	24.31	1000	$ 735.00
PM888	Rotary Flow Divider	3	11	0.46	7.6	0.030	2000	1500	24.31	1000	$ 1035.00
PM8888	Rotary Flow Divider	4	15	0.46	7.6	0.030	2000	1500	24.31	1000	$ 1335.00
P211	Rotary Flow Divider	2	12	0.41	6.7	0.060	2000	1500	24.31	1000	$ 1080.00
P2111	Rotary Flow Divider	3	18	0.41	6.7	0.060	2000	1500	24.31	1000	$ 1480.00
P21111	Rotary Flow Divider	4	24	0.41	6.7	0.060	2000	1500	24.31	1000	$ 1880.00
P233	Rotary Flow Divider	2	20	0.7	11.5	0.068	2000	1500	24.31	1000	$ 1080.00
P23-60	Rotary Flow Divider	3	30	0.7	11.5	0.068	2000	1500	24.31	1000	$ 1480.00
P23-59	Rotary Flow Divider	4	40	0.7	11.5	0.068	2000	1500	24.31	1000	$ 1880.00
P255	Rotary Flow Divider	2	30	1.0	16	0.083	2000	1500	24.31	1000	$ 1080.00
P2555	Rotary Flow Divider	3	45	1.0	16	0.083	2000	1500	24.31	1000	$ 1480.00
P25555	Rotary Flow Divider	4	60	1.0	16	0.083	2000	1500	24.31	1000	$ 1880.00
P277	Rotary Flow Divider	2	44	1.46	24	0.113	2000	1500	24.31	1000	$ 1080.00
P27-60	Rotary Flow Divider	3	66	1.46	24	0.113	2000	1500	24.31	1000	$ 1480.00
P27-59	Rotary Flow Divider	4	88	1.46	24	0.113	2000	1500	24.31	1000	$ 1880.00

PM Series

Typical Multi-Section P21-P27





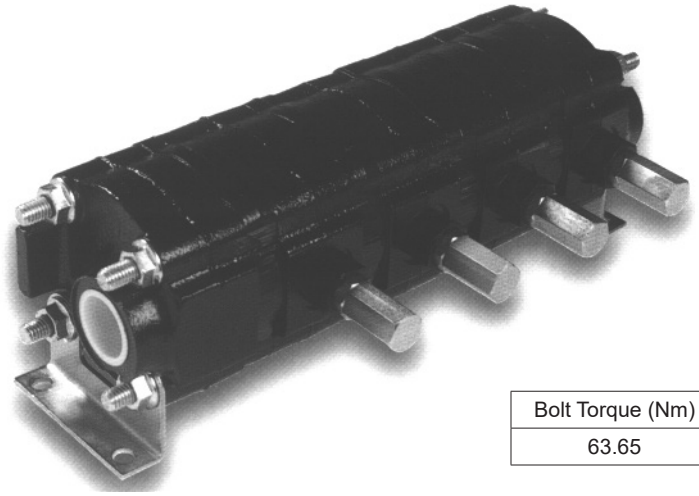
HSR Rotary Flow Dividers

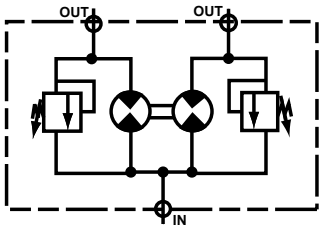
HSR Series Rotaty Flow Dividers - 2 Way

Stock No.	Description	No. of Sections	Total Max Inlet (GPM)	Displacement CC/Rev	Max. Press. Intermittent (PSI)	Max. Press. Continuous (PSI)	Max. Diff. Between Section (PSI)	List Price
HSR30404	Rotary Flow Divider	2	13	6.7	5000	3000	750	$ 1374.00
HSR30707	Rotary Flow Divider	2	21	11.7	5000	3000	750	$ 1374.00
HSR31010	Rotary Flow Divider	2	29	16.4	5000	3000	750	$ 1374.00
HSR31212	Rotary Flow Divider	2	37	20	5000	3000	750	$ 1374.00
HSR31515	Rotary Flow Divider	2	44	24	5000	3000	750	$ 1374.00

High Pressure
Equal Flow - With Relief

High pressure flow dividers come standard with two or four sections. Each section comes with a differential relief valve from output to input which allows a 'lagging' cylinder to catch up at end of stroke. Alternative multi-section and mixed section units are available on request.



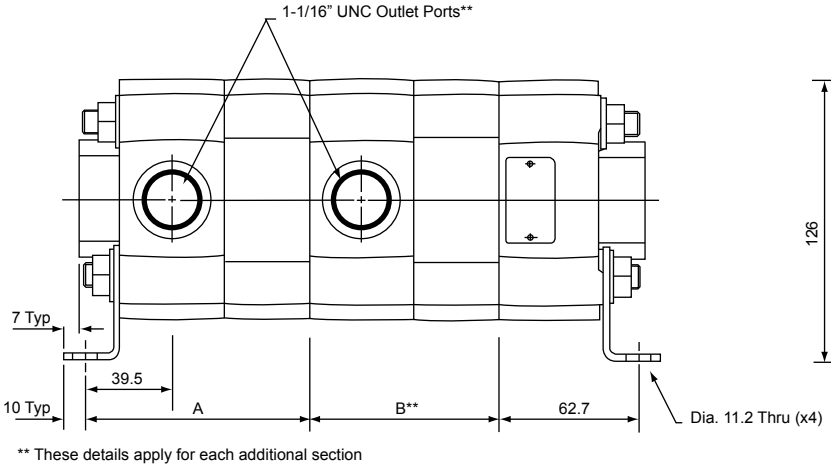


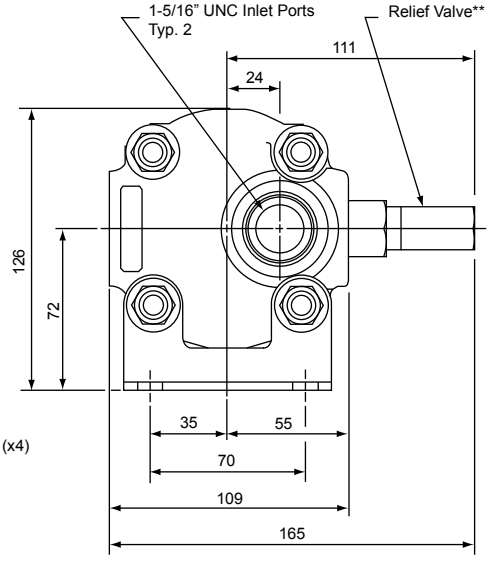
Relief Valve Settings:

Standard setting on relief valve is 51 bar (750 psi) differential between outlet and inlet pressure. (These relief valves do not give system relief.)

Maximum total inlet flow (litres/min) is based on 3000 rpm. For a more quiet operation limit speed to between 1500 and 2500 rpm.

Bolt Torque (Nm)	Dim A (mm)	Dim B (mm)	Weight (kg)
63.65	100.5	85	15.4





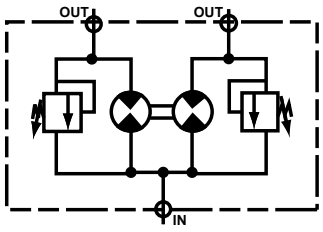
HPR Rotary Flow Dividers

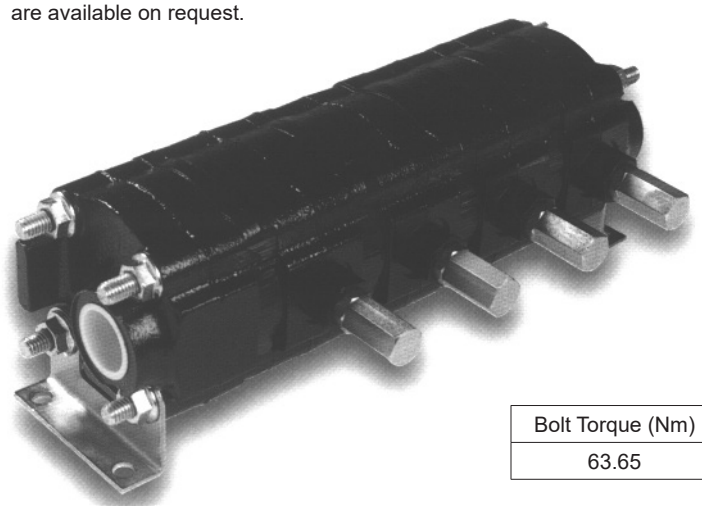
HPR Series Rotaty Flow Dividers - 3, 4, 5, 6 Way

Stock No.	Description	No. of Sections	GPM	Displacement CC/Rev	Max. Press. Intermittent (PSI)	Max. Press. Continuous (PSI)	Max. Diff. Between Section (PSI)	List Price
HPR21-60	Rotary Flow Divider	3	20	6.7	5000	3000	750	$ 1887.00
HPR21-59	Rotary Flow Divider	4	27	6.7	5000	3000	750	$ 2400.00
HPR21-58	Rotary Flow Divider	5	33	6.7	5000	3000	750	$ 2913.00
HPR21-57	Rotary Flow Divider	6	39	6.7	5000	3000	750	$ 3426.00
HPR27-60	Rotary Flow Divider	3	66	24.5	5000	3000	750	$ 1887.00
HPR27-59	Rotary Flow Divider	4	88	24.5	5000	3000	750	$ 2400.00
HPR27-58	Rotary Flow Divider	5	100	24.5	5000	3000	750	$ 2913.00
HPR27-57	Rotary Flow Divider	6	100	24.5	5000	3000	750	$ 3426.00

High Pressure
Equal Flow - With Relief

High pressure flow dividers come standard with two or four sections. Each section comes with a differential relief valve from output to input which allows a 'lagging' cylinder to catch up at end of stroke. Alternative multi-section and mixed section units are available on request.



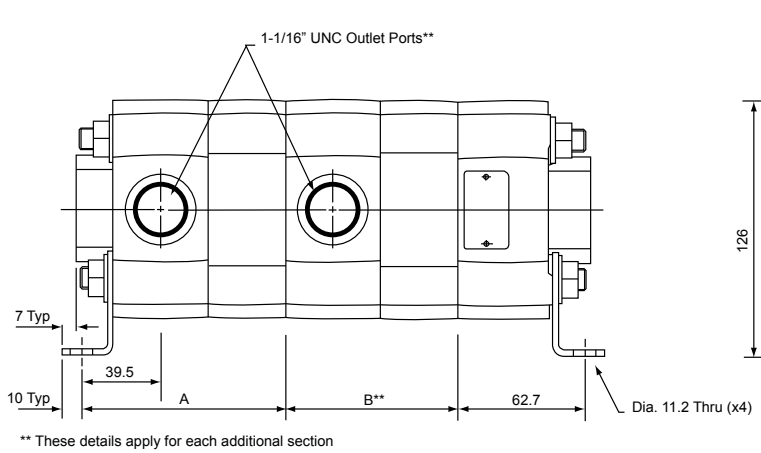


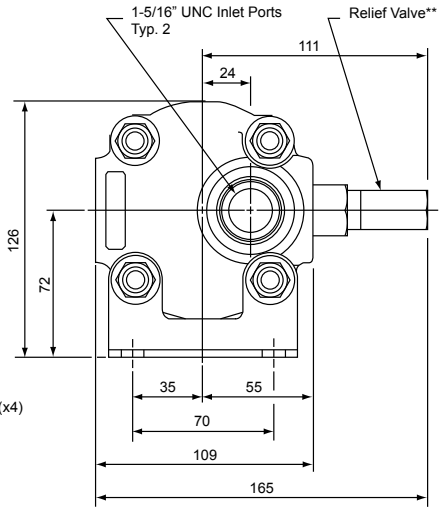
Relief Valve Settings:

Standard setting on relief valve is 51 bar (750 psi) differential between outlet and inlet pressure. (These relief valves do not give system relief.)

Maximum total inlet flow (litres/min) is based on 3000 rpm. For a more quiet operation limit speed to between 1500 and 2500 rpm.

Bolt Torque (Nm)	Dim A (mm)	Dim B (mm)	Weight (kg)
63.65	100.5	85	15.4





Section 11
Cylinders

MAKE	MODEL	PAGE
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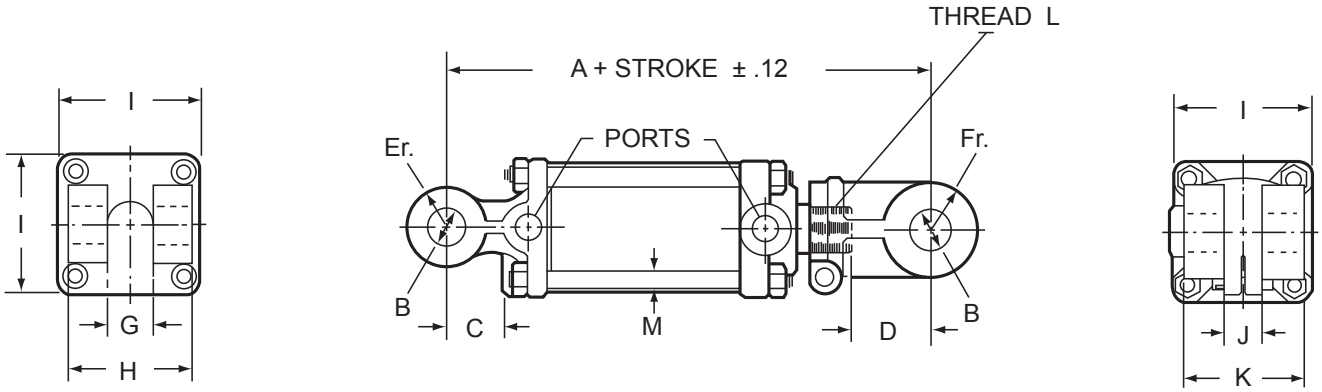
Cross	DB Tie-Rod Cylinders	11.03
Cross	DR Re-Phasing Cylinders	11.04
Hypower	HPAG Welded Cylinders	11.05
Hypower	HPAG Welded Cylinders	11.06
Hypower	HPAG Welded Cylinders	11.07
Hypower	HPAG Welded Cylinders	11.08
Hypower	HPAG Welded Cylinders	11.09
Hypower	HPAG Welded Cylinders	11.10
Hypower	HPAG Welded Cylinders	11.11
Hypower	HPAG Welded Cylinders	11.12
Hypower	M3000 Welded Cylinders	11.13
Hypower	M3000 Welded Cylinders	11.14
Hypower	M3000 Welded Cylinders	11.15
Hypower	M3000 Welded Cylinders	11.16
Hypower	M3000 Welded Cylinders	11.17
Hypower	M3000 Welded Cylinders	11.18
Hypower	M3000 Welded Cylinders	11.19
Hypower	S3000 Welded Cylinders	11.20
Hypower	S3000 Welded Cylinders	11.21
Hypower	S3000 Welded Cylinders	11.22
Hypower	S3000 Welded Cylinders	11.23
Hypower	S3000 Welded Cylinders	11.24
Hypower	S3000 Welded Cylinders	11.25
Hypower	S3000 Welded Cylinders	11.26
Hypower	HPNM Hydraulic Cylinders	11.27
Hypower	HPNM Hydraulic Cylinders	11.28
Hypower	HPNM Hydraulic Cylinders	11.29
Hypower	HPTL Toplink Cylinders	11.30
Hypower	HPTL Toplink Cylinders	11.31
Hypower	HPTL Toplink Cylinders	11.32
Hypower	H No Series Cylinders	11.33
Hypower	H No Series Cylinders	11.34
Hypower	CFC Series Cylinders	11.35
Hypower	CFC Series Cylinders	11.36
Hypower	CFC Series Cylinders	11.37
Hypower	CFC Series Cylinders	11.38
Hypower	CFC Series Cylinders	11.39
Hypower	CFC Series Cylinders	11.40
Hypower	CFH Series Cylinders	11.41
Hypower	CFH Series Cylinders	11.42
Hypower	CFH Series Cylinders	11.43
Hypower	CFH Series Cylinders	11.44
Hypower	CFH Series Cylinders	11.45
Hypower	CFH Series Cylinders	11.46
Hypower	RFC Series Cylinders	11.47
Hypower	RFC Series Cylinders	11.48
Hypower	RFC Series Cylinders	11.49
Hypower	RFC Series Cylinders	11.50
Hypower	RFC Series Cylinders	11.51
Hypower	RFC Series Cylinders	11.52
Hypower	RFH Series Cylinders	11.53
Hypower	RFH Series Cylinders	11.54
Hypower	RFH Series Cylinders	11.55
Hypower	RFH Series Cylinders	11.56
Hypower	RFH Series Cylinders	11.57
Hypower	RFH Series Cylinders	11.58
Hypower	HPPH Series Cylinders	11.59
Hypower	HPPH Series Cylinders	11.60
Hypower	HPAG Cylinder Accessories	11.61
Prince	Cylinder Rod Stroke Control	11.62

DB Tie-Rod Cylinders

Standard Tie-Rod Cylinders

Stock No.	Model	Description	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
			in	mm	in	mm				
6.00" Stroke Cylinders										
026644	206DB	Hydraulic Cylinder	2.00"	50.80	6.00"	152.40	1.06"	16.25"	9/16" UNO	$ 406.00
027372	2506DB	Hydraulic Cylinder	2.50"	63.50	6.00"	152.40	1.06"	16.25"	3/4" UNO	$ 425.00
8.00" Stroke Cylinders										
030686	208DB	Hydraulic Cylinder	2.00"	50.80	8.00"	203.20	1.06"	20.25"	9/16" UNO	$ 438.00
029229	2508DB	Hydraulic Cylinder	2.50"	63.50	8.00"	203.20	1.06"	20.25"	3/4" UNO	$ 501.00
029215	2508DB	Hydraulic Cylinder	2.50"	63.50	8.00"	203.20	1.25"	20.25"	3/4" UNO	$ 463.00
028298	308DB	Hydraulic Cylinder	3.00"	73.50	8.00"	203.20	1.25"	20.25"	3/4" UNO	$ 611.00
026492	308DB	Hydraulic Cylinder	3.00"	73.50	8.00"	203.20	1.50"	20.25"	3/4" UNO	$ 529.00
029612	3508DB	Hydraulic Cylinder	3.50	88.90	8.00"	203.20	1.25"	20.25"	3/4" UNO	$ 611.00
026494	3508DB	Hydraulic Cylinder	3.50"	88.90	8.00"	203.20	1.50"	20.25"	3/4" UNO	$ 660.00
029773	408DB	Hydraulic Cylinder	4.00"	101.60	8.00"	203.20	1.25"	20.25"	3/4" UNO	$ 803.00
026496	408DB	Hydraulic Cylinder	4.00"	101.60	8.00"	203.20	1.50"	20.25"	3/4" UNO	$ 811.00
026922	508DB	Hydraulic Cylinder	5.00"	127.00	8.00"	203.20	1.50"	20.25"	3/4" UNO	$ 1401.00
10.00" Stroke Cylinders										
027213	210DB	Hydraulic Cylinder	2.00"	50.80	10.00"	254.00	1.06"	20.25"	9/16" UNO	$ 463.00
029111	2510DB	Hydraulic Cylinder	2.50"	63.50	10.00"	254.00	1.25"	20.25"	3/4" UNO	$ 503.00



Cross 'DB' Cylinder Dimension Table

Bore Dia.	A	B	C	D	Er	Fr	G	H	I	J	K	L	M
2.00 (51)	See 'Closed Centre' dimension in cylinder table	1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	0.875 (22.2)	1.000 (25.4)	1.125 (28.6)	2.500 (63.5)	2.875 (73.0)	1.125 (28.6)	2.625 (66.7)	1-1/16 -12	0.375 (9.5)
2.50 (64)		1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.000 (25.4)	1.125 (28.6)	2.625 (66.7)	3.250 (82.6)	1.125 (28.6)	2.625 (66.7)	1-1/16 -12	0.375 (9.5)
3.00 (76)		1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.000 (25.4)	1.125 (28.6)	2.625 (66.7)	3.750 (95.3)	1.125 (28.6)	2.625 (66.7)	1-1/4 -12	0.500 (12.7)
3.50 (89)		1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.250 (31.8)	1.250 (31.8)	2.750 (69.8)	4.250 (107.9)	1.250 (31.8)	2.750 (69.8)	1-1/4 -12	0.562 (14.3)
4.00 (102)		1.015 (25.8)	2.000 (50.8)	2.125 (53.9)	1.125 (28.6)	1.250 (31.8)	1.250 (31.8)	2.875 (73.0)	5.00 (127)	1.250 (31.8)	2.750 (69.8)	1-1/4 -12	0.625 (15.9)
5.00 (127)		1.265 (32.1)	2.312 (58.7)	2.125 (53.9)	1.500 (38.1)	1.250 (31.8)	1.375 (34.9)	3.500 (88.9)	6.000 (152.4)	1.250 (31.8)	2.750 (69.8)	1-1/2 -12	0.750 (19.0)

DB Tie-Rod Cylinders

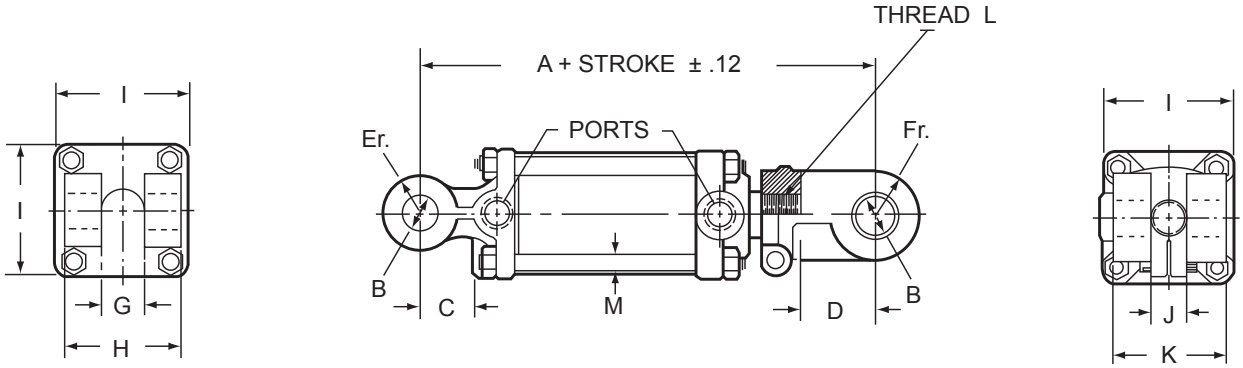
Standard Tie-Rod Cylinders

Stock No.	Model	Description	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
			in	mm	in	mm				
12.00" Stroke Cylinders										
028743	212DB	Hydraulic Cylinder	2.00"	50.80	12.00"	304.80	1.06"	24.25"	9/16" UNO	$ 517.00
026916	2512DB	Hydraulic Cylinder	2.50"	63.50	12.00"	304.80	1.25"	24.25"	3/4" UNO	$ 538.00
028865	312DB	Hydraulic Cylinder	3.00"	73.50	12.00"	304.80	1.50"	24.25"	3/4" UNO	$ 616.00
028742	3512DB	Hydraulic Cylinder	3.50"	88.90	12.00"	304.80	1.25"	24.25"	3/4" UNO	$ 724.00
026642	412DB	Hydraulic Cylinder	4.00"	101.60	12.00"	304.80	1.50"	24.25"	3/4" UNO	$ 953.00
16.00" Stroke Cylinders										
028866	216DB	Hydraulic Cylinder	2.00"	50.80	16.00"	406.40	1.06"	28.25"	9/16" UNO	$ 495.00
028895	2516DB	Hydraulic Cylinder	2.50"	63.50	16.00"	406.40	1.25"	28.25"	3/4" UNO	$ 597.00
026647	316DB	Hydraulic Cylinder	3.00"	73.50	16.00"	406.40	1.50"	28.25"	3/4" UNO	$ 673.00
026648	3516DB	Hydraulic Cylinder	3.50"	88.90	16.00"	406.40	1.50"	28.25"	3/4" UNO	$ 820.00
027275	416DB	Hydraulic Cylinder	4.00"	101.60	16.00"	406.40	1.50"	28.25"	3/4" UNO	$ 1058.00
028967	516DB	Hydraulic Cylinder	5.00"	127.00	16.00"	406.40	1.50"	28.25"	3/4" UNO	$ 1603.00
18.00" Stroke Cylinders										
028867	2518DB	Hydraulic Cylinder	2.50"	63.50	18.00"	457.20	1.25"	30.25"	3/4" UNO	$ 611.00
028868	318DB	Hydraulic Cylinder	3.00"	73.50	18.00"	457.20	1.50"	30.25"	3/4" UNO	$ 705.00
029169	3518DB	Hydraulic Cylinder	3.50"	88.90	18.00"	457.20	1.50"	30.25"	3/4" UNO	$ 837.00
029121	418DB	Hydraulic Cylinder	4.00"	101.60	18.00"	457.20	1.50"	30.25"	3/4" UNO	$ 1089.00
20.00" Stroke Cylinders										
030169	2520DB	Hydraulic Cylinder	2.50"	63.50	20.00"	508.00	1.25"	32.25"	3/4" UNO	$ 646.00
24.00" Stroke Cylinders										
028869	2524DB	Hydraulic Cylinder	2.50"	63.50	24.00"	609.60	1.25"	34.25"	3/4" UNO	$ 874.00
026919	324DB	Hydraulic Cylinder	3.00"	73.50	24.00"	609.60	1.50"	36.25"	3/4" UNO	$ 859.00
026930	3524DB	Hydraulic Cylinder	3.50"	88.90	24.00"	609.60	1.50"	34.25"	3/4" UNO	$ 931.00
027269	424DB	Hydraulic Cylinder	4.00"	101.60	24.00"	609.60	1.50"	34.62"	3/4" UNO	$ 1191.00
30.00" Stroke Cylinders										
029230	2530DB	Hydraulic Cylinder	2.50"	63.50	30.00"	762.00	1.25"	42.25"	3/4" UNO	$ 941.00

DR Re-Phasing Cylinders

Re-Phasing Tie-Rod Cylinders

Stock No.	Model	Description	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
			in	mm	in	mm				
8.00" Stroke Re-Phasing Cylinders										
PMS2586	2508DR	Hydraulic Cylinder	2.50"	63.50	8.00"	203.20	1.125"	20.25"	3/4" UNO	$ 690.00
PMS2580	27508DR	Hydraulic Cylinder	2.75"	70.00	8.00"	203.20	1.125"	20.25"	3/4" UNO	$ 696.00
027016	308DR	Hydraulic Cylinder	3.00"	73.50	8.00"	203.20	1.25"	20.25"	3/4" UNO	$ 944.00
026866	32508DR	Hydraulic Cylinder	3.25"	82.55	8.00"	203.20	1.25"	20.25"	3/4" UNO	$ 1087.00
028377	3508DER	Hydraulic Cylinder	3.50"	88.90	8.00"	203.20	1.25"	20.25"	3/4" UNO	$ 904.00
027293	37508DR	Hydraulic Cylinder	3.75"	95.25	8.00"	203.20	1.37"	20.25"	3/4" UNO	$ 1258.00
026912	408DER	Hydraulic Cylinder	4.00"	101.60	8.00"	203.20	1.37"	20.25"	3/4" UNO	$ 1287.00
12.00" Stroke Re-Phasing Cylinders										
029170	312DER	Hydraulic Cylinder	3.00"	73.50	12.00"	304.80	1.25"	24.25"	3/4" UNO	$ 913.00
028999	32512DER	Hydraulic Cylinder	3.25"	82.55	12.00"	304.80	1.25"	24.25"	3/4" UNO	$ 953.00
027403	3512DER	Hydraulic Cylinder	3.50"	88.90	12.00"	304.80	1.25"	24.25"	3/4" UNO	$ 991.00
027317	37512DR	Hydraulic Cylinder	3.75"	95.25	12.00"	604.80	1.37"	24.25"	3/4" UNO	$ 1297.00
027315	412DR	Hydraulic Cylinder	4.00"	101.60	12.00"	304.80	1.37"	24.25"	3/4" UNO	$ 1162.00
027313	42512DR	Hydraulic Cylinder	4.25"	107.95	12.00"	304.80	1.37"	24.25"	3/4" UNO	$ 1338.00



Cross 'DR' Cylinder Dimension Table

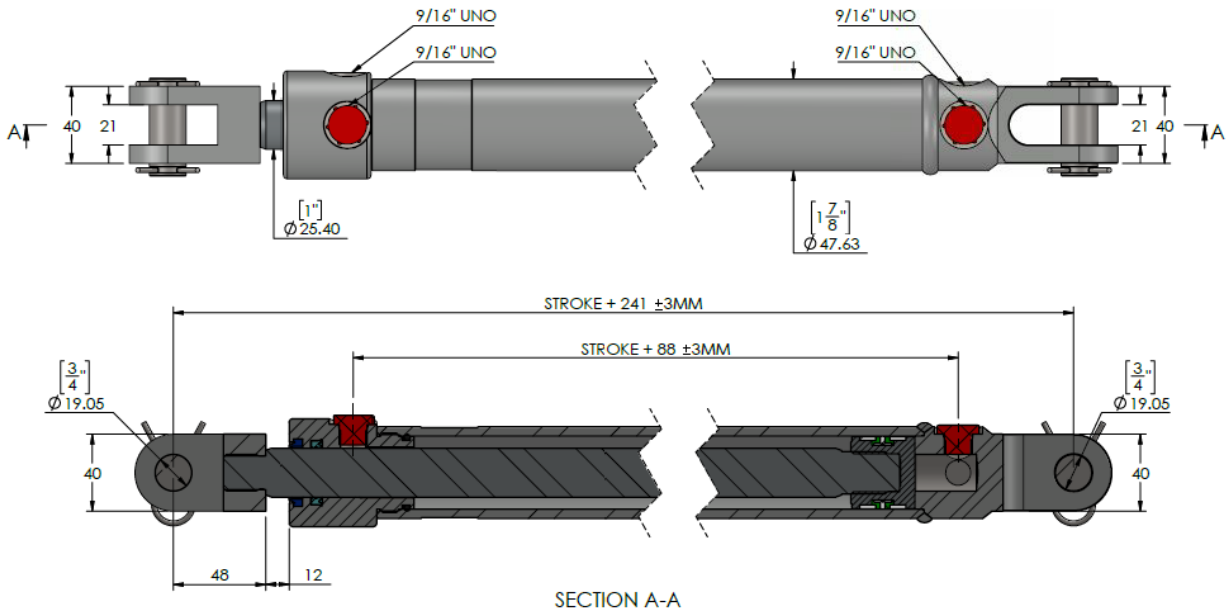
Bore Dia.	A	B	C	D	Er	Fr	G	H	I	J	K	L	M
3.00 (76)	12.25 (311.1)	1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.250 (31.8)	1.125 (28.6)	2.625 (66.7)	3.750 (31.8)	1.250 (31.8)	2.750 (69.8)	1-1/4 -12	0.500 (12.7)
3.25 (83)	12.25 (311.1)	1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.250 (31.8)	1.250 (31.8)	2.750 (69.8)	4.250 (107.9)	1.250 (31.8)	2.750 (69.8)	1-1/4 -12	0.562 (14.3)
3.50 (89)	12.25 (311.1)	1.015 (25.8)	1.625 (41.3)	2.125 (53.9)	1.000 (25.4)	1.250 (31.8)	1.250 (31.8)	2.750 (69.8)	4.250 (107.9)	1.250 (31.8)	2.750 (69.8	1-1/4 -12	0.562 (14.3)
3.75 (95)	12.25 (311.1)	1.015 (25.8)	2.000 (50.8)	2.125 (53.9)	1.125 (28.6)	1.250 (31.8)	1.250 (31.8)	2.875 (73.0)	5.000 (127)	1.250 (31.8)	2.750 (69.8)	1-1/4 -12	0.625 (15.9)
4.00 (102)	12.25 (311.1)	1.015 (25.8)	2.000 (50.8)	2.125 (53.9)	1.125 (28.6)	1.250 (31.8)	1.250 (31.8)	2.875 (73.0)	5.000 (127)	1.250 (31.8)	2.750 (69.8)	1-1/4 -12	0.625 (15.9)
4.25 (108)	12.25 (311.1)	1.265* (32.1)	2.000 (50.8)	2.125 (53.9)	1.375 (34.9)	1.250 (31.8)	1.250 (31.8)	3.125 (79.4)	5.500 (139.7)	1.250 (31.8)	2.750 (69.8)	1-1/4 -12	0.750 (19.0)
4.50 (114)	12.25 (311.1)	1.265* (32.1)	2.000 (50.8)	2.125 (53.9)	1.375 (34.9)	1.250 (31.8)	1.250 (31.8)	3.125 (79.4)	5.500 (139.7)	1.250 (31.8)	2.750 (69.8)	1-1/2 -12	0.750 (19.0)
4.75 (121)	12.25 (311.1)	1.265* (32.1)	2.312 (58.7)	2.125 (53.9)	1.500 (38.1)	1.250 (31.8)	1.375 (34.9)	3.500 (88.9)	6.000 (152.4)	1.250 (31.8)	2.750 (69.8)	1-1/2 -12	0.750 (19.0)
5.00 (127)	12.25 (311.1)	1.265* (32.1)	2.312 (58.7)	2.125 (53.9)	1.500 (38.1)	1.250 (31.8)	1.375 (34.9)	3.500 (88.9)	6.000 (152.4)	1.250 (31.8)	2.750 (69.8)	1-1/2 -12	0.750 (19.0)

*1.015 optional. Must be specified on order.

HPAG Welded Cylinders

1.50” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPAG15060D100A	1.50"	38.1	6.00"	152.4	1.00"	15.5"	9/16" UNO	$ 423.00
HPAG15080D100A	1.50"	38.1	8.00"	203.2	1.00"	17.5"	9/16" UNO	$ 423.00
HPAG15100D100A	1.50"	38.1	10.00"	254	1.00"	19.5"	9/16" UNO	$ 444.00
HPAG15120D100A	1.50"	38.1	12.00"	304.8	1.00"	21.5"	9/16" UNO	$ 471.00
HPAG15140D100A	1.50"	38.1	14.00"	355.6	1.00"	23.5"	9/16" UNO	$ 495.00
HPAG15160D100A	1.50"	38.1	16.00"	406.4	1.00"	25.5"	9/16" UNO	$ 472.00
HPAG15180D100A	1.50"	38.1	18.00"	457.2	1.00"	27.5"	9/16" UNO	$ 544.00
HPAG15200D100A	1.50"	38.1	20.00"	508	1.00"	29.5"	9/16" UNO	$ 568.00
HPAG15220D100A	1.50"	38.1	22.00"	558.8	1.00"	31.5"	9/16" UNO	$ 592.00
HPAG15240D100A	1.50"	38.1	24.00"	609.6	1.00"	33.5"	9/16" UNO	$ 616.00
HPAG15260D100A	1.50"	38.1	26.00"	660.4	1.00"	35.5"	9/16" UNO	$ 641.00
HPAG15280D100A	1.50"	38.1	28.00"	711.2	1.00"	37.5"	9/16" UNO	$ 665.00
HPAG15300D100A	1.50"	38.1	30.00"	762	1.00"	39.5"	9/16" UNO	$ 689.00
HPAG15320D100A	1.50"	38.1	32.00"	812.8	1.00"	41.5"	9/16" UNO	$ 713.00
HPAG15360D100A	1.50"	38.1	36.00"	914.4	1.00"	45.5"	9/16" UNO	$ 762.00
HPAG15400D100A	1.50"	38.1	40.00"	1016	1.00"	49.5"	9/16" UNO	$ 810.00
HPAG15480D100A	1.50"	38.1	48.00"	1219.2	1.00"	57.5"	9/16" UNO	$ 907.00
ADD PER INCH (25.4mm)	1.50"	38.1	1.00"	25.4	1.00"			$ 12.00

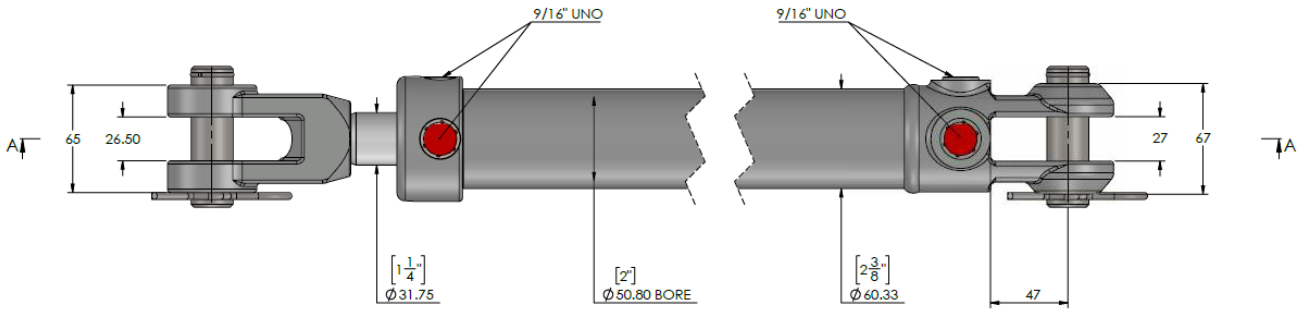


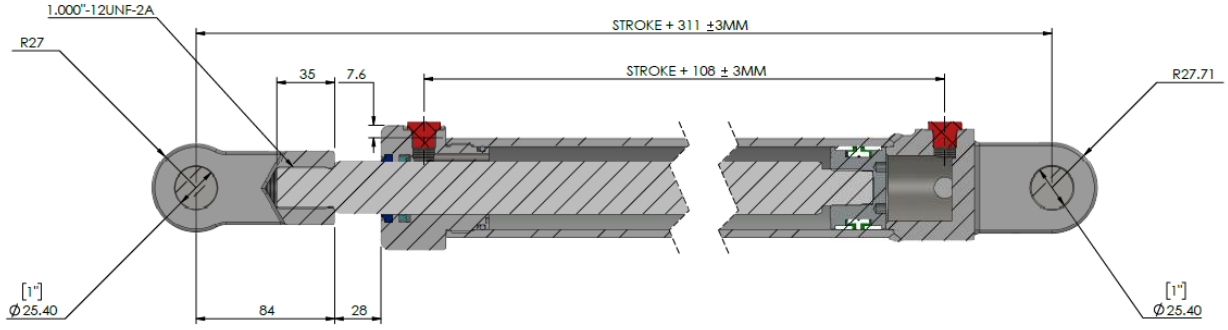
SECTION A-A

HPAG Welded Cylinders

2.00” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPAG20060D125A	2.00"	50.8	6.00"	152.4	1.25"	18.25"	9/16” UNO	$ 423.00
HPAG20080D125A	2.00"	50.8	8.00"	203.2	1.25"	20.25"	9/16” UNO	$ 423.00
HPAG20100D125A	2.00"	50.8	10.00"	254	1.25"	22.25"	9/16” UNO	$ 447.00
HPAG20120D125A	2.00"	50.8	12.00"	304.8	1.25"	24.25"	9/16” UNO	$ 471.00
HPAG20140D125A	2.00"	50.8	14.00"	355.6	1.25"	26.25"	9/16” UNO	$ 495.00
HPAG20160D125A	2.00"	50.8	16.00"	406.4	1.25"	28.25"	9/16” UNO	$ 520.00
HPAG20180D125A	2.00"	50.8	18.00"	457.2	1.25"	30.25"	9/16” UNO	$ 544.00
HPAG20200D125A	2.00"	50.8	20.00"	508	1.25"	32.25"	9/16” UNO	$ 568.00
HPAG20220D125A	2.00"	50.8	22.00"	558.8	1.25"	34.25"	9/16” UNO	$ 592.00
HPAG20240D125A	2.00"	50.8	24.00"	609.6	1.25"	36.25"	9/16” UNO	$ 616.00
HPAG20260D125A	2.00"	50.8	26.00"	660.4	1.25"	38.25"	9/16” UNO	$ 641.00
HPAG20280D125A	2.00"	50.8	28.00"	711.2	1.25"	40.25"	9/16” UNO	$ 665.00
HPAG20300D125A	2.00"	50.8	30.00"	762	1.25"	42.25"	9/16” UNO	$ 689.00
HPAG20320D125A	2.00"	50.8	32.00"	812.8	1.25"	44.25"	9/16” UNO	$ 713.00
HPAG20360D125A	2.00"	50.8	36.00"	914.4	1.25"	48.25"	9/16” UNO	$ 762.00
HPAG20400D125A	2.00"	50.8	40.00"	1016	1.25"	52.25"	9/16” UNO	$ 810.00
HPAG20480D125A	2.00"	50.8	48.00"	1219.2	1.25"	60.25"	9/16” UNO	$ 907.00
ADD PER INCH (25.4mm)	2.00"	50.8	1.00"	25.4	1.25"			$ 12.00



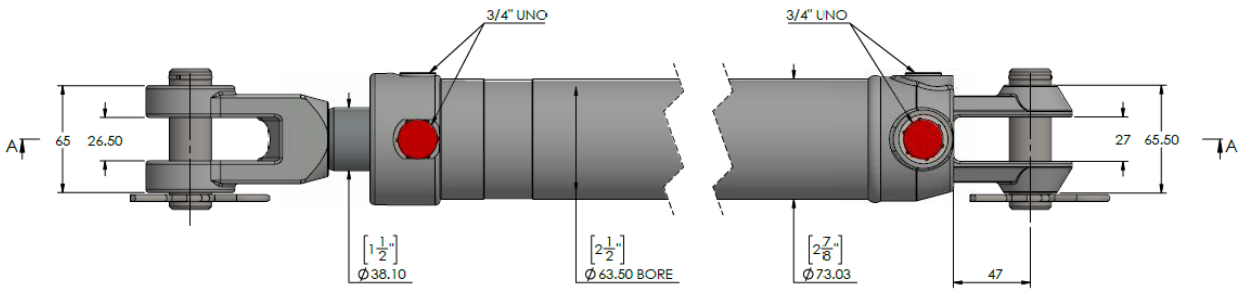


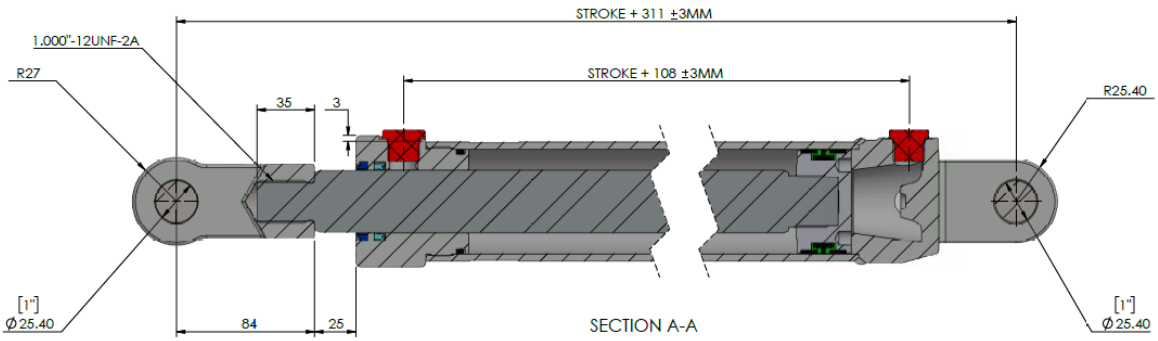
SECTION A-A

HPAG Welded Cylinders

2.50” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPAG25060D150B	2.50"	63.5	6.00"	152.4	1.50"	18.25"	3/4" UNO	$ 426.00
HPAG25080D150B	2.50"	63.5	8.00"	203.2	1.50"	20.25"	3/4" UNO	$ 426.00
HPAG25100D150B	2.50"	63.5	10.00"	254	1.50"	22.25"	3/4" UNO	$ 472.00
HPAG25120D150B	2.50"	63.5	12.00"	304.8	1.50"	24.25"	3/4" UNO	$ 475.00
HPAG25140D150B	2.50"	63.5	14.00"	355.6	1.50"	26.25"	3/4" UNO	$ 499.00
HPAG25160D150B	2.50"	63.5	16.00"	406.4	1.50"	28.25"	3/4" UNO	$ 523.00
HPAG25180D150B	2.50"	63.5	18.00"	457.2	1.50"	30.25"	3/4" UNO	$ 547.00
HPAG25200D150B	2.50"	63.5	20.00"	508	1.50"	32.25"	3/4" UNO	$ 571.00
HPAG25220D150B	2.50"	63.5	22.00"	558.8	1.50"	34.25"	3/4" UNO	$ 596.00
HPAG25240D150B	2.50"	63.5	24.00"	609.6	1.50"	36.25"	3/4" UNO	$ 620.00
HPAG25260D150B	2.50"	63.5	26.00"	660.4	1.50"	38.25"	3/4" UNO	$ 672.00
HPAG25280D150B	2.50"	63.5	28.00"	711.2	1.50"	40.25"	3/4" UNO	$ 668.00
HPAG25300D150B	2.50"	63.5	30.00"	762	1.50"	42.25"	3/4" UNO	$ 692.00
HPAG25320D150B	2.50"	63.5	32.00"	812.8	1.50"	44.25"	3/4" UNO	$ 717.00
HPAG25360D150B	2.50"	63.5	36.00"	914.4	1.50"	48.25"	3/4" UNO	$ 765.00
HPAG25400D150B	2.50"	63.5	40.00"	1016	1.50"	52.25"	3/4" UNO	$ 813.00
HPAG25480D150B	2.50"	63.5	48.00"	1219.2	1.50"	60.25"	3/4" UNO	$ 1001.00
ADD PER INCH (25.4mm)	2.50"	63.5	1.00"	25.4	1.50"			$ 12.00

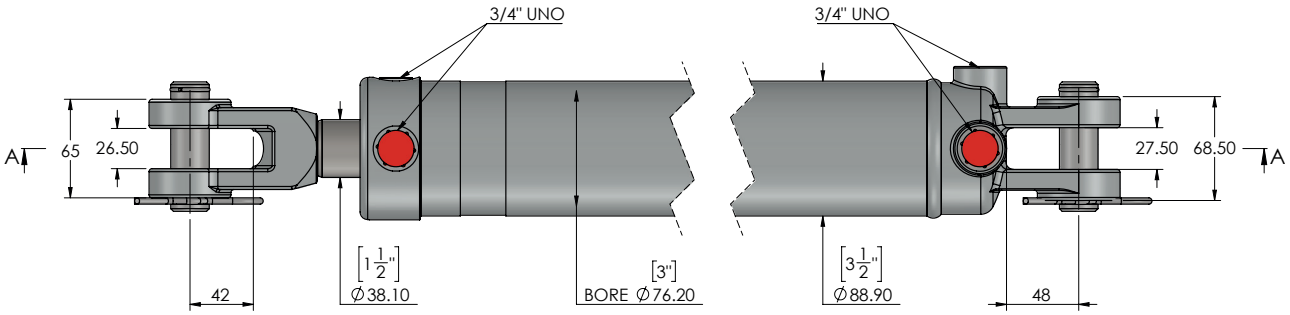


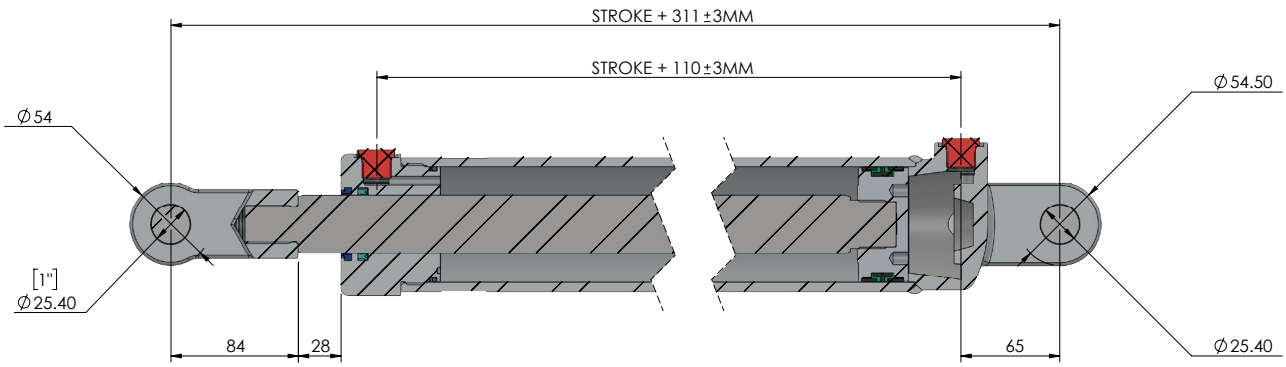


HPAG Welded Cylinders

3.00” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPAG30060D150B	3.00"	76.2	6.00"	152.4	1.50"	18.25"	3/4" UNO	$ 498.00
HPAG30080D150B	3.00"	76.2	8.00"	203.2	1.50"	20.25"	3/4" UNO	$ 498.00
HPAG30100D150B	3.00"	76.2	10.00"	254	1.50"	22.25"	3/4" UNO	$ 534.00
HPAG30120D150B	3.00"	76.2	12.00"	304.8	1.50"	24.25"	3/4" UNO	$ 570.00
HPAG30140D150B	3.00"	76.2	14.00"	355.6	1.50"	26.25"	3/4" UNO	$ 631.00
HPAG30160D150B	3.00"	76.2	16.00"	406.4	1.50"	28.25"	3/4" UNO	$ 643.00
HPAG30180D150B	3.00"	76.2	18.00"	457.2	1.50"	30.25"	3/4" UNO	$ 679.00
HPAG30200D150B	3.00"	76.2	20.00"	508	1.50"	32.25"	3/4" UNO	$ 715.00
HPAG30220D150B	3.00"	76.2	22.00"	558.8	1.50"	34.25"	3/4" UNO	$ 752.00
HPAG30240D150B	3.00"	76.2	24.00"	609.6	1.50"	36.25"	3/4" UNO	$ 788.00
HPAG30260D150B	3.00"	76.2	26.00"	660.4	1.50"	38.25"	3/4" UNO	$ 849.00
HPAG30280D150B	3.00"	76.2	28.00"	711.2	1.50"	40.25"	3/4" UNO	$ 861.00
HPAG30300D150B	3.00"	76.2	30.00"	762	1.50"	42.25"	3/4" UNO	$ 897.00
HPAG30320D150B	3.00"	76.2	32.00"	812.8	1.50"	44.25"	3/4" UNO	$ 933.00
HPAG30360D150B	3.00"	76.2	36.00"	914.4	1.50"	48.25"	3/4" UNO	$ 1006.00
HPAG30400D150B	3.00"	76.2	40.00"	1016	1.50"	52.25"	3/4" UNO	$ 1153.00
HPAG30480D150B	3.00"	76.2	48.00"	1219.2	1.50"	60.25"	3/4" UNO	$ 1224.00
ADD PER INCH (25.4mm)	3.00"	76.2	1.00"	25.4	1.50"			$ 19.00
ADD 1.25” PINS								$ 24.00
ADD 1.75” ROD								15 %



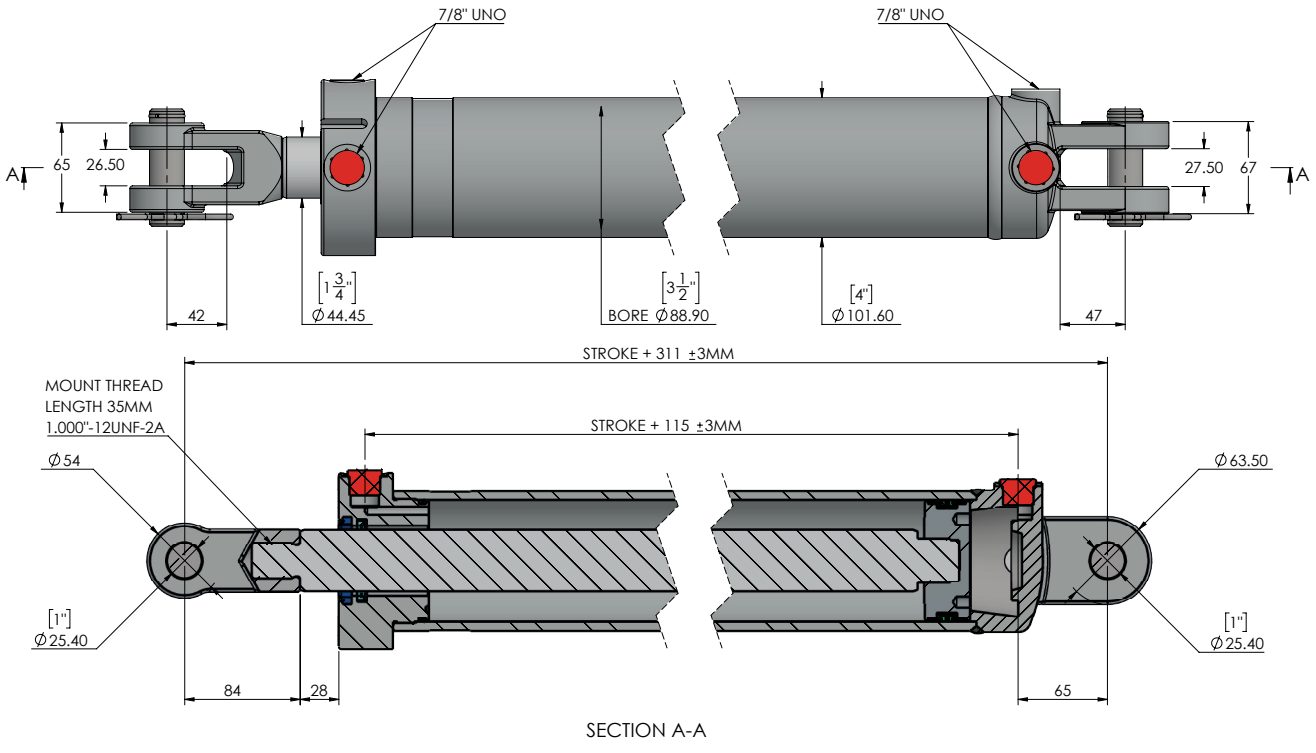


SECTION A-A

HPAG Welded Cylinders

3.50” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPAG35060D175C	3.50"	88.9	6.00"	152.4	1.750"	18.25"	7/8" UNO	$ 642.00
HPAG35080D175C	3.50"	88.9	8.00"	203.2	1.750"	20.25"	7/8" UNO	$ 642.00
HPAG35100D175C	3.50"	88.9	10.00"	254	1.750"	22.25"	7/8" UNO	$ 690.00
HPAG35120D175C	3.50"	88.9	12.00"	304.8	1.750"	24.25"	7/8" UNO	$ 739.00
HPAG35140D175C	3.50"	88.9	14.00"	355.6	1.750"	26.25"	7/8" UNO	$ 787.00
HPAG35160D175C	3.50"	88.9	16.00"	406.4	1.750"	28.25"	7/8" UNO	$ 835.00
HPAG35180D175C	3.50"	88.9	18.00"	457.2	1.750"	30.25"	7/8" UNO	$ 884.00
HPAG35200D175C	3.50"	88.9	20.00"	508	1.750"	32.25"	7/8" UNO	$ 932.00
HPAG35220D175C	3.50"	88.9	22.00"	558.8	1.750"	34.25"	7/8" UNO	$ 891.00
HPAG35240D175C	3.50"	88.9	24.00"	609.6	1.750"	36.25"	7/8" UNO	$ 1060.00
HPAG35260D175C	3.50"	88.9	26.00"	660.4	1.750"	38.25"	7/8" UNO	$ 1077.00
HPAG35280D175C	3.50"	88.9	28.00"	711.2	1.750"	40.25"	7/8" UNO	$ 1126.00
HPAG35300D175C	3.50"	88.9	30.00"	762	1.750"	42.25"	7/8" UNO	$ 1174.00
HPAG35320D175C	3.50"	88.9	32.00"	812.8	1.750"	44.25"	7/8" UNO	$ 1271.00
HPAG35360D175C	3.50"	88.9	36.00"	914.4	1.750"	48.25"	7/8" UNO	$ 1319.00
HPAG35400D175C	3.50"	88.9	40.00"	1016	1.750"	52.25"	7/8" UNO	$ 1416.00
HPAG35480D175C	3.50"	88.9	48.00"	1219.2	1.750"	60.25"	7/8" UNO	$ 1610.00
ADD PER INCH (25.4mm)	3.50"	88.9	1.00"	25.4	1.750"			$ 24.00
ADD 1.25” PINS								$ 24.00
ADD 2.00” ROD								15 %

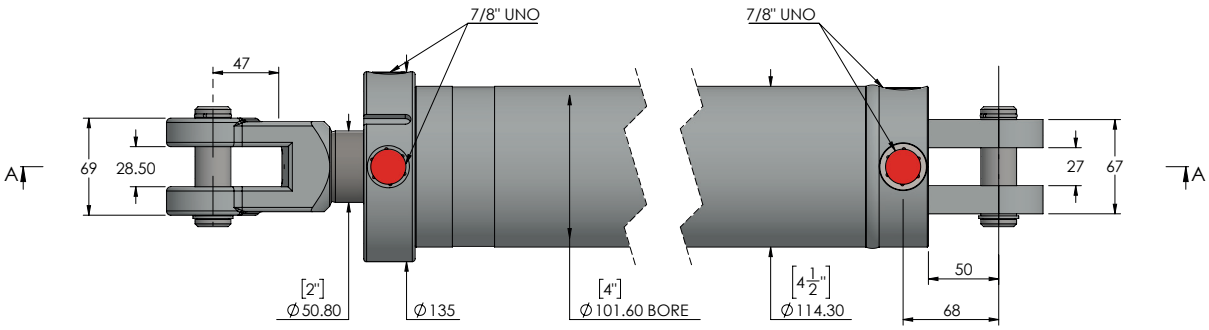


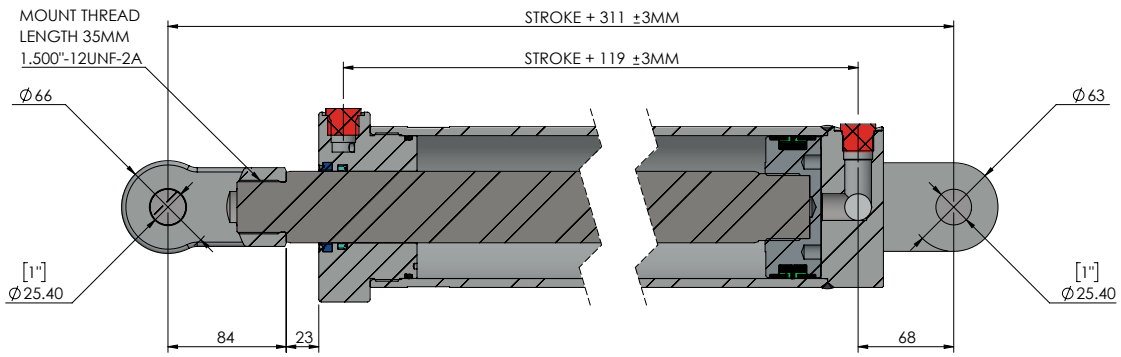
SECTION A-A

HPAG Welded Cylinders

4.00” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPAG40060D200C	4.00"	101.6	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 755.00
HPAG40080D200C	4.00"	101.6	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 755.00
HPAG40100D200C	4.00"	101.6	10.00"	254	2.00"	22.25"	7/8" UNO	$ 816.00
HPAG40120D200C	4.00"	101.6	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 846.00
HPAG40140D200C	4.00"	101.6	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 907.00
HPAG40160D200C	4.00"	101.6	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 967.00
HPAG40180D200C	4.00"	101.6	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1028.00
HPAG40200D200C	4.00"	101.6	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1088.00
HPAG40220D200C	4.00"	101.6	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1149.00
HPAG40240D200C	4.00"	101.6	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1209.00
HPAG40260D200C	4.00"	101.6	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1270.00
HPAG40280D200C	4.00"	101.6	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1330.00
HPAG40300D200C	4.00"	101.6	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1391.00
HPAG40320D200C	4.00"	101.6	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 1451.00
HPAG40360D200C	4.00"	101.6	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 1572.00
HPAG40400D200C	4.00"	101.6	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 1693.00
HPAG40480D200C	4.00"	101.6	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 1935.00
ADD PER INCH (25.4mm)	4.00"	101.6	1.00"	25.4	2.00"			$ 31.00
ADD 1.25” PINS								$ 24.00



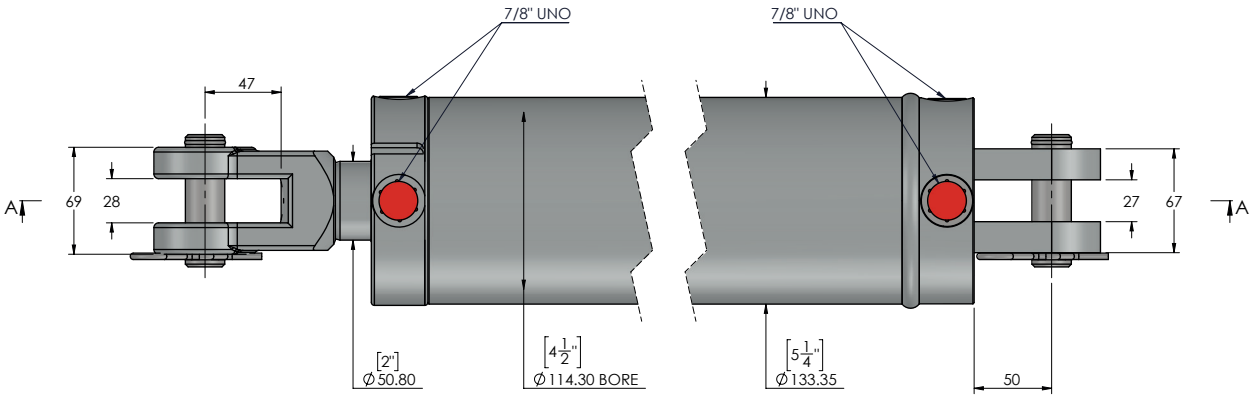


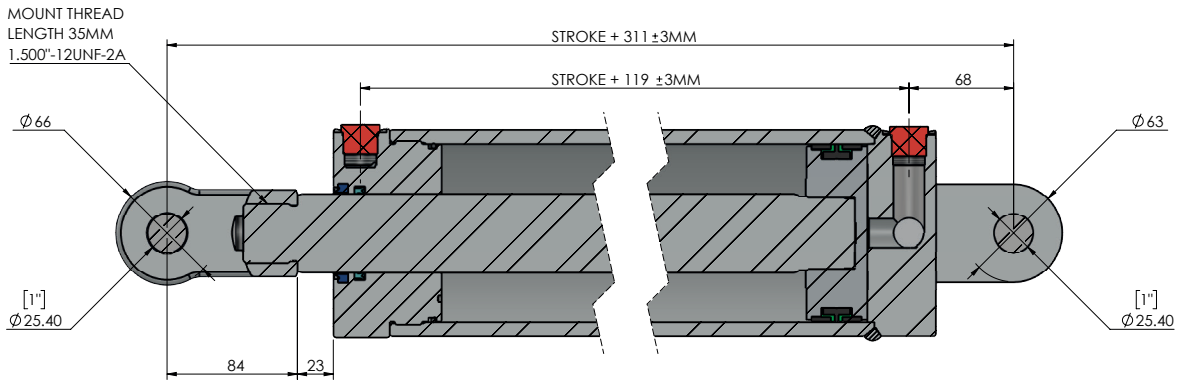
SECTION A-A

HPAG Welded Cylinders

4.50” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPAG45060D200C	4.50"	114.3	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 1002.00
HPAG45080D200C	4.50"	114.3	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 1002.00
HPAG45100D200C	4.50"	114.3	10.00"	254	2.00"	22.25"	7/8" UNO	$ 1063.00
HPAG45120D200C	4.50"	114.3	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 1123.00
HPAG45140D200C	4.50"	114.3	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 1184.00
HPAG45160D200C	4.50"	114.3	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 1244.00
HPAG45180D200C	4.50"	114.3	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1305.00
HPAG45200D200C	4.50"	114.3	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1365.00
HPAG45220D200C	4.50"	114.3	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1426.00
HPAG45240D200C	4.50"	114.3	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1486.00
HPAG45260D200C	4.50"	114.3	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1547.00
HPAG45280D200C	4.50"	114.3	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1608.00
HPAG45300D200C	4.50"	114.3	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1668.00
HPAG45320D200C	4.50"	114.3	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 1728.00
HPAG45360D200C	4.50"	114.3	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 1849.00
HPAG45400D200C	4.50"	114.3	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 1970.00
HPAG45480D200C	4.50"	114.3	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 2212.00
ADD PER INCH (25.4mm)	4.50"	114.3	1.00"	25.4	2.00"			$ 31.00
ADD 1.25” PINS								$ 24.00



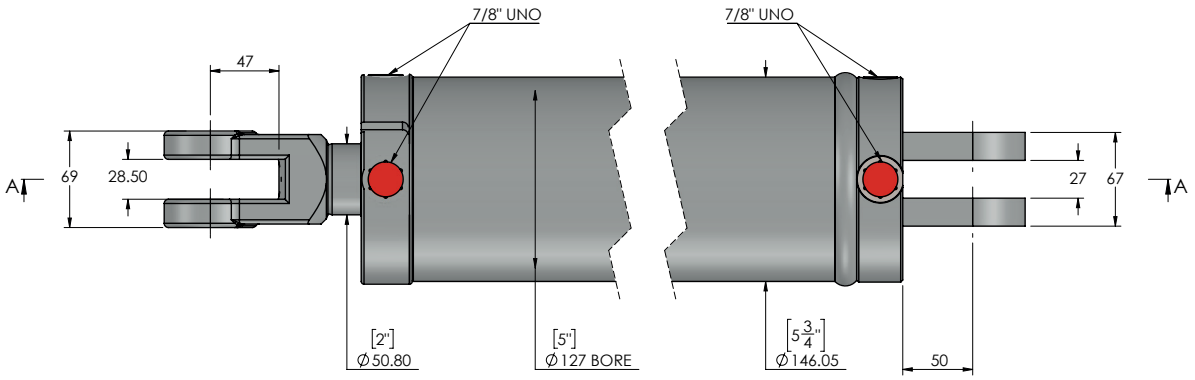


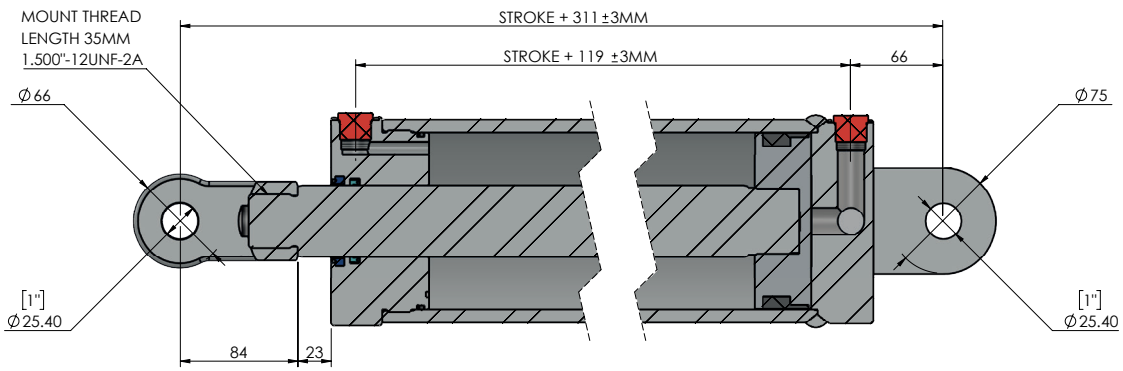
SECTION A-A

HPAG Welded Cylinders

5.00” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPAG50060D200C	5.00"	127	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 1179.00
HPAG50080D200C	5.00"	127	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 1179.00
HPAG50100D200C	5.00"	127	10.00"	254	2.00"	22.25"	7/8" UNO	$ 1252.00
HPAG50120D200C	5.00"	127	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 1324.00
HPAG50140D200C	5.00"	127	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 1397.00
HPAG50160D200C	5.00"	127	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 1469.00
HPAG50180D200C	5.00"	127	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1542.00
HPAG50200D200C	5.00"	127	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1615.00
HPAG50220D200C	5.00"	127	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1687.00
HPAG50240D200C	5.00"	127	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1760.00
HPAG50260D200C	5.00"	127	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1832.00
HPAG50280D200C	5.00"	127	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1905.00
HPAG50300D200C	5.00"	127	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1978.00
HPAG50320D200C	5.00"	127	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 2050.00
HPAG50360D200C	5.00"	127	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 2123.00
HPAG50400D200C	5.00"	127	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 2195.00
HPAG50480D200C	5.00"	127	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 2268.00
ADD PER INCH (25.4mm)	5.00"	127	1.00"	25.4	2.00"			$ 36.00
ADD 1.25” PINS								$ 24.00



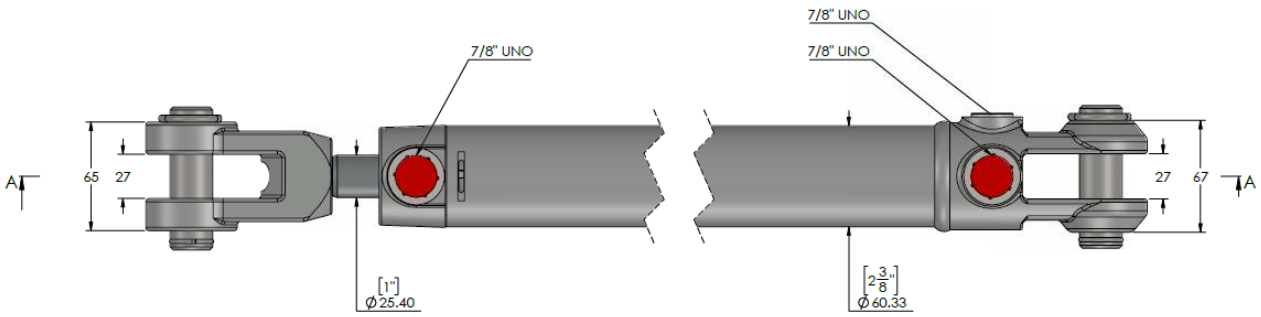


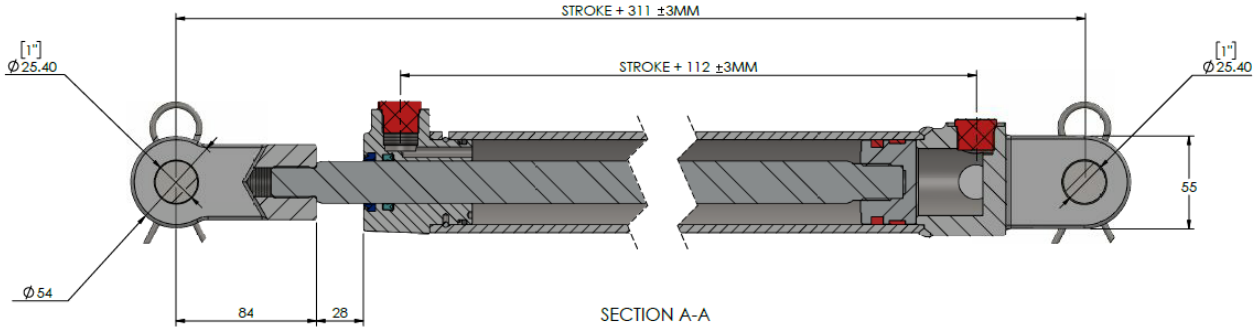
SECTION A-A

M3000 Welded Cylinders

2.00” Bore Welded Hydraulic Cylinders, Wired Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
M3000-20-152-40-AU000	2.00"	50.8	6.00"	152.4	1.00"	18.25"	7/8" UNO	$ 423.00
M3000-20-203-40-AU000	2.00"	50.8	8.00"	203.2	1.00"	20.25"	7/8" UNO	$ 423.00
M3000-20-254-40-AU000	2.00"	50.8	10.00"	254	1.00"	22.25"	7/8" UNO	$ 447.00
M3000-20-305-40-AU000	2.00"	50.8	12.00"	304.8	1.00"	24.25"	7/8" UNO	$ 471.00
M3000-20-356-40-AU000	2.00"	50.8	14.00"	355.6	1.00"	26.25"	7/8" UNO	$ 495.00
M3000-20-406-40-AU000	2.00"	50.8	16.00"	406.4	1.00"	28.25"	7/8" UNO	$ 520.00
M3000-20-457-40-AU000	2.00"	50.8	18.00"	457.2	1.00"	30.25"	7/8" UNO	$ 544.00
M3000-20-508-40-AU000	2.00"	50.8	20.00"	508	1.00"	32.25"	7/8" UNO	$ 568.00
M3000-20-559-40-AU000	2.00"	50.8	22.00"	558.8	1.00"	34.25"	7/8" UNO	$ 592.00
M3000-20-610-40-AU000	2.00"	50.8	24.00"	609.6	1.00"	36.25"	7/8" UNO	$ 616.00
M3000-20-660-40-AU000	2.00"	50.8	26.00"	660.4	1.00"	38.25"	7/8" UNO	$ 641.00
M3000-20-711-40-AU000	2.00"	50.8	28.00"	711.2	1.00"	40.25"	7/8" UNO	$ 665.00
M3000-20-762-40-AU000	2.00"	50.8	30.00"	762	1.00"	42.25"	7/8" UNO	$ 689.00
M3000-20-813-40-AU000	2.00"	50.8	32.00"	812.8	1.00"	44.25"	7/8" UNO	$ 713.00
M3000-20-914-40-AU000	2.00"	50.8	36.00"	914.4	1.00"	48.25"	7/8" UNO	$ 762.00
M3000-20-1016-40-AU000	2.00"	50.8	40.00"	1016	1.00"	52.25"	7/8" UNO	$ 810.00
M3000-20-1219-40-AU000	2.00"	50.8	48.00"	1219.2	1.00"	60.25"	7/8" UNO	$ 907.00
ADD PER INCH (25.4mm)	2.00"	50.8	1.00"	25.4	1.25”			$ 12.00

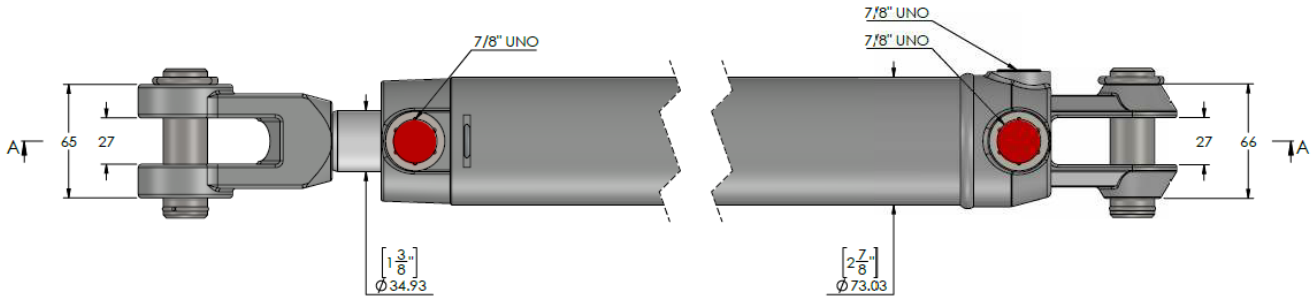


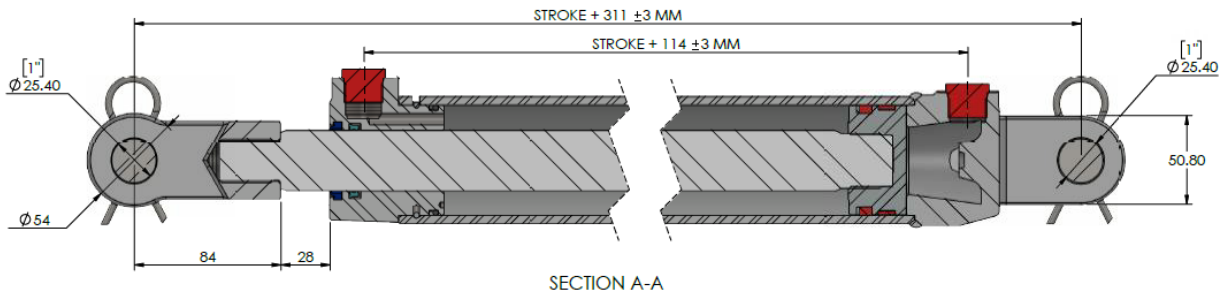


M3000 Welded Cylinders

2.50” Bore Welded Hydraulic Cylinders, Wired Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
M3000-25-152-40-AU000	2.50"	63.5	6.00"	152	1.375"	18.25"	7/8" UNO	$ 426.00
M3000-25-203-40-AU000	2.50"	63.5	8.00"	203	1.375"	20.25"	7/8" UNO	$ 426.00
M3000-25-254-40-AU000	2.50"	63.5	10.00"	254	1.375"	22.25"	7/8" UNO	$ 450.00
M3000-25-305-40-AU000	2.50"	63.5	12.00"	304.8	1.375"	24.25"	7/8" UNO	$ 475.00
M3000-25-356-40-AU000	2.50"	63.5	14.00"	355.6	1.375"	26.25"	7/8" UNO	$ 499.00
M3000-25-406-40-AU000	2.50"	63.5	16.00"	406.4	1.375"	28.25"	7/8" UNO	$ 523.00
M3000-25-457-40-AU000	2.50"	63.5	18.00"	457.2	1.375"	30.25"	7/8" UNO	$ 547.00
M3000-25-508-40-AU000	2.50"	63.5	20.00"	508	1.375"	32.25"	7/8" UNO	$ 571.00
M3000-25-559-40-AU000	2.50"	63.5	22.00"	558.8	1.375"	34.25"	7/8" UNO	$ 596.00
M3000-25-610-40-AU000	2.50"	63.5	24.00"	609.6	1.375"	36.25"	7/8" UNO	$ 620.00
M3000-25-660-40-AU000	2.50"	63.5	26.00"	660.4	1.375"	38.25"	7/8" UNO	$ 644.00
M3000-25-711-40-AU000	2.50"	63.5	28.00"	711.2	1.375"	40.25"	7/8" UNO	$ 668.00
M3000-25-762-40-AU000	2.50"	63.5	30.00"	762	1.375"	42.25"	7/8" UNO	$ 692.00
M3000-25-813-40-AU000	2.50"	63.5	32.00"	812.8	1.375"	44.25"	7/8" UNO	$ 717.00
M3000-25-914-40-AU000	2.50"	63.5	36.00"	914.4	1.375"	48.25"	7/8" UNO	$ 765.00
M3000-25-1016-40-AU000	2.50"	63.5	40.00"	1016	1.375"	52.25"	7/8" UNO	$ 814.00
M3000-25-1219-40-AU000	2.50"	63.5	48.00"	1219.2	1.375"	60.25"	7/8" UNO	$ 910.00
ADD PER INCH (25.4mm)	2.50”	63.5	1.00”	25.4	1.375”			$ 12.00



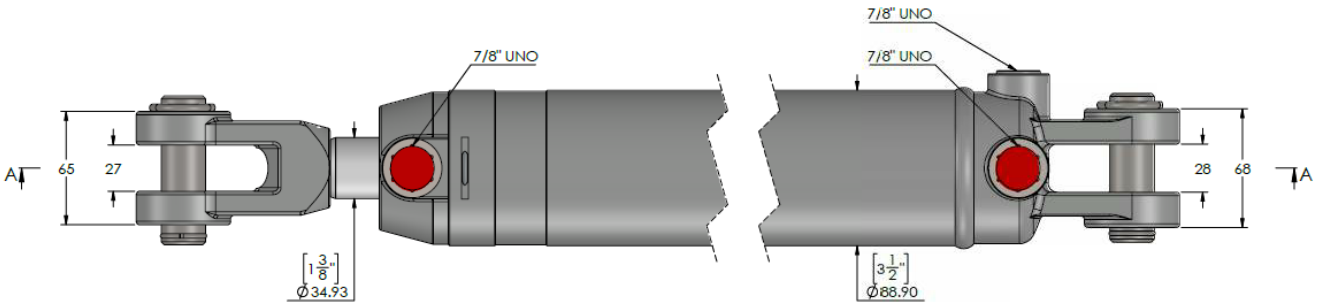


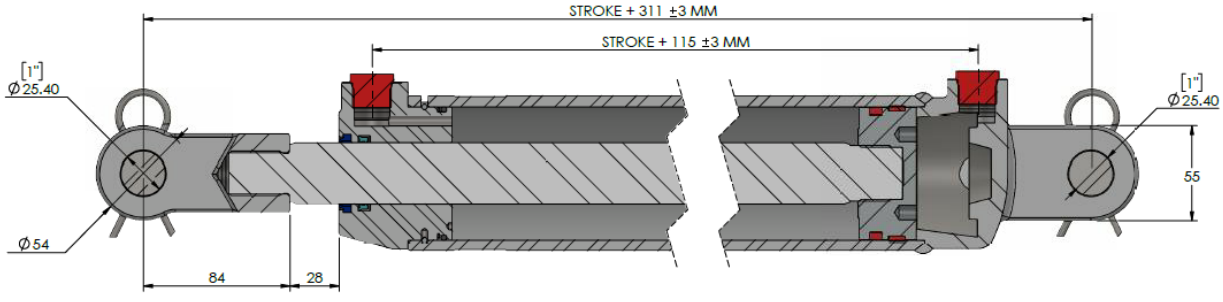
SECTION A-A

M3000 Welded Cylinders

3.00” Bore Welded Hydraulic Cylinders, Wired Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
M3000-30-152-40-AU000	3.00"	76.2	6.00"	152.4	1.375"	18.25"	7/8" UNO	$ 498.00
M3000-30-203-40-AU000	3.00"	76.2	8.00"	203.2	1.375"	20.25"	7/8" UNO	$ 498.00
M3000-30-254-40-AU000	3.00"	76.2	10.00"	254	1.375"	22.25"	7/8" UNO	$ 534.00
M3000-30-305-40-AU000	3.00"	76.2	12.00"	304.8	1.375"	24.25"	7/8" UNO	$ 570.00
M3000-30-356-40-AU000	3.00"	76.2	14.00"	355.6	1.375"	26.25"	7/8" UNO	$ 607.00
M3000-30-406-40-AU000	3.00"	76.2	16.00"	406.4	1.375"	28.25"	7/8" UNO	$ 643.00
M3000-30-457-40-AU000	3.00"	76.2	18.00"	457.2	1.375"	30.25"	7/8" UNO	$ 679.00
M3000-30-508-40-AU000	3.00"	76.2	20.00"	508	1.375"	32.25"	7/8" UNO	$ 715.00
M3000-30-559-40-AU000	3.00"	76.2	22.00"	558.8	1.375"	34.25"	7/8" UNO	$ 752.00
M3000-30-610-40-AU000	3.00"	76.2	24.00"	609.6	1.375"	36.25"	7/8" UNO	$ 788.00
M3000-30-660-40-AU000	3.00"	76.2	26.00"	660.4	1.375"	38.25"	7/8" UNO	$ 824.00
M3000-30-711-40-AU000	3.00"	76.2	28.00"	711.2	1.375"	40.25"	7/8" UNO	$ 861.00
M3000-30-762-40-AU000	3.00"	76.2	30.00"	762	1.375"	42.25"	7/8" UNO	$ 897.00
M3000-30-813-40-AU000	3.00"	76.2	32.00"	812.8	1.375"	44.25"	7/8" UNO	$ 933.00
M3000-30-914-40-AU000	3.00"	76.2	36.00"	914.4	1.375"	48.25"	7/8" UNO	$ 1006.00
M3000-30-1016-40-AU000	3.00"	76.2	40.00"	1016	1.375"	52.25"	7/8" UNO	$ 1078.00
M3000-30-1219-40-AU000	3.00"	76.2	48.00"	1219.2	1.375"	60.25"	7/8" UNO	$ 1224.00
ADD PER INCH (25.4mm)	3.00”	76.2	1.00”	25.4	1.375”			$ 19.00
ADD 1.25” PINS								$ 24.00



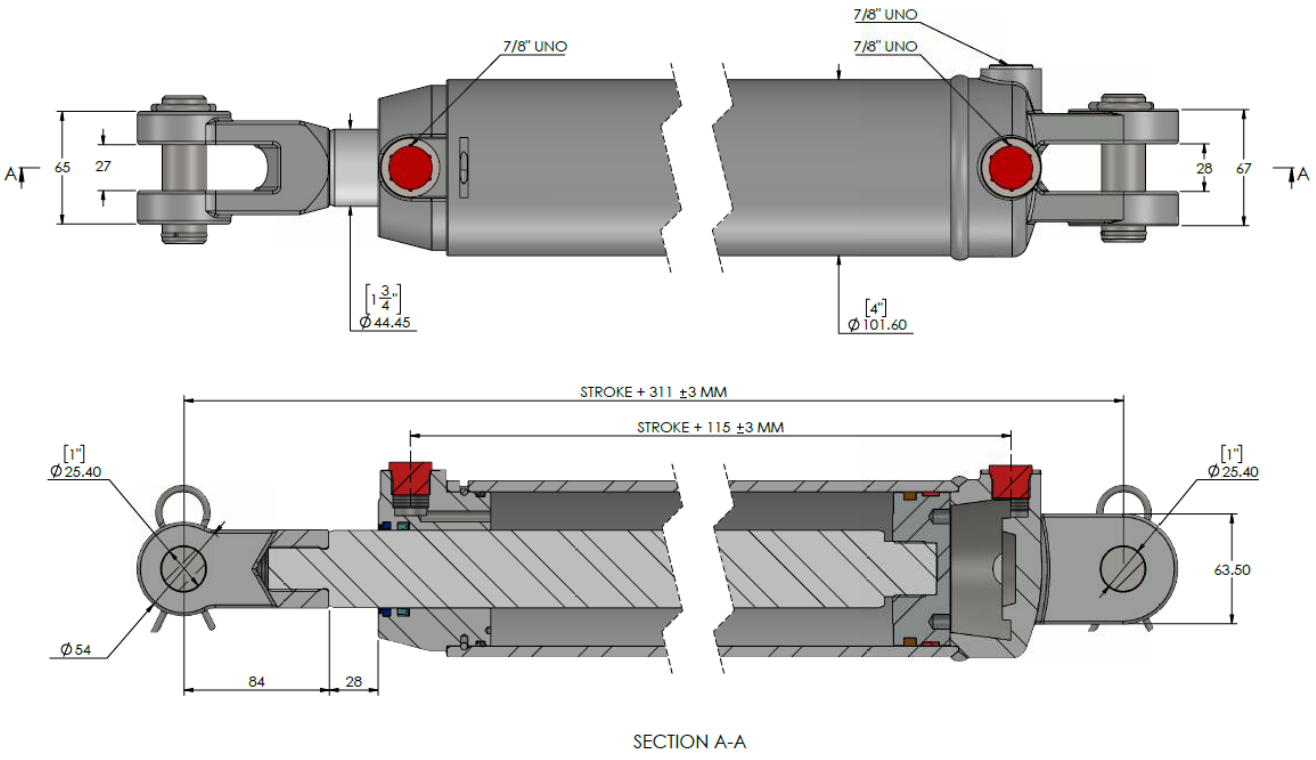


SECTION A-A

M3000 Welded Cylinders

3.50” Bore Welded Hydraulic Cylinders, Wired Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
M3000-35-152-40-AU000	3.50"	88.9	6.00"	152.4	1.750"	18.25"	7/8" UNO	$ 642.00
M3000-35-203-40-AU000	3.50"	88.9	8.00"	203.2	1.750"	20.25"	7/8" UNO	$ 642.00
M3000-35-254-40-AU000	3.50"	88.9	10.00"	254	1.750"	22.25"	7/8" UNO	$ 690.00
M3000-35-305-40-AU000	3.50"	88.9	12.00"	304.8	1.750"	24.25"	7/8" UNO	$ 739.00
M3000-35-356-40-AU000	3.50"	88.9	14.00"	355.6	1.750"	26.25"	7/8" UNO	$ 787.00
M3000-35-406-40-AU000	3.50"	88.9	16.00"	406.4	1.750"	28.25"	7/8" UNO	$ 835.00
M3000-35-457-40-AU000	3.50"	88.9	18.00"	457.2	1.750"	30.25"	7/8" UNO	$ 884.00
M3000-35-508-40-AU000	3.50"	88.9	20.00"	508	1.750"	32.25"	7/8" UNO	$ 932.00
M3000-35-559-40-AU000	3.50"	88.9	22.00"	558.8	1.750"	34.25"	7/8" UNO	$ 981.00
M3000-35-610-40-AU000	3.50"	88.9	24.00"	609.6	1.750"	36.25"	7/8" UNO	$ 1029.00
M3000-35-660-40-AU000	3.50"	88.9	26.00"	660.4	1.750"	38.25"	7/8" UNO	$ 1077.00
M3000-35-711-40-AU000	3.50"	88.9	28.00"	711.2	1.750"	40.25"	7/8" UNO	$ 1126.00
M3000-35-762-40-AU000	3.50"	88.9	30.00"	762	1.750"	42.25"	7/8" UNO	$ 1174.00
M3000-35-813-40-AU000	3.50"	88.9	32.00"	812.8	1.750"	44.25"	7/8" UNO	$ 1223.00
M3000-35-914-40-AU000	3.50"	88.9	36.00"	914.4	1.750"	48.25"	7/8" UNO	$ 1319.00
M3000-35-1016-40-AU000	3.50"	88.9	40.00"	1016	1.750"	52.25"	7/8" UNO	$ 1416.00
M3000-35-1219-40-AU000	3.50"	88.9	48.00"	1219.2	1.750"	60.25"	7/8" UNO	$ 1610.00
ADD PER INCH (25.4mm)	3.50"	88.9	1.00”	25.4	1.750"			$ 24.00

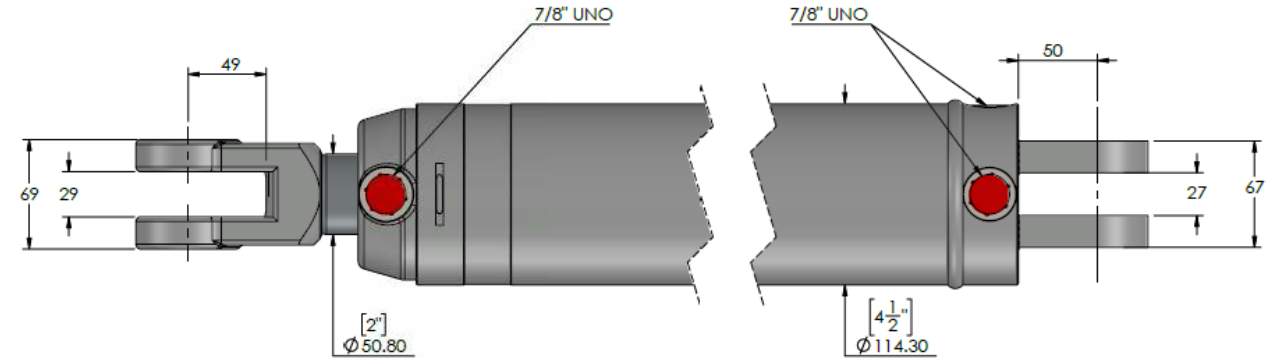


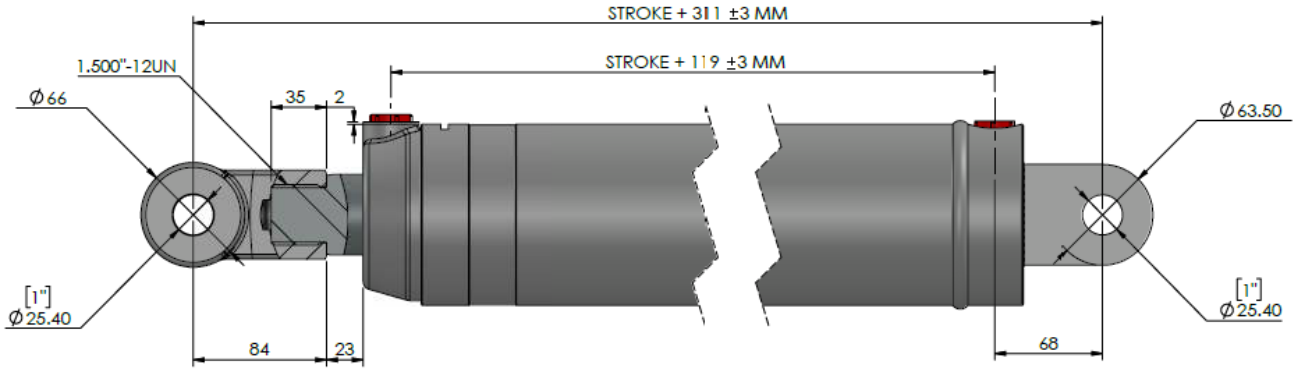
SECTION A-A

M3000 Welded Cylinders

4.00” Bore Welded Hydraulic Cylinders, Wired Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
M3000-40-152-40-AU000	4.00"	101.6	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 755.00
M3000-40-203-40-AU000	4.00"	101.6	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 755.00
M3000-40-254-40-AU000	4.00"	101.6	10.00"	254	2.00"	22.25"	7/8" UNO	$ 816.00
M3000-40-305-40-AU000	4.00"	101.6	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 846.00
M3000-40-356-40-AU000	4.00"	101.6	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 907.00
M3000-40-406-40-AU000	4.00"	101.6	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 967.00
M3000-40-457-40-AU000	4.00"	101.6	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1028.00
M3000-40-508-40-AU000	4.00"	101.6	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1088.00
M3000-40-559-40-AU000	4.00"	101.6	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1149.00
M3000-40-610-40-AU000	4.00"	101.6	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1209.00
M3000-40-660-40-AU000	4.00"	101.6	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1270.00
M3000-40-711-40-AU000	4.00"	101.6	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1330.00
M3000-40-762-40-AU000	4.00"	101.6	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1391.00
M3000-40-813-40-AU000	4.00"	101.6	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 1451.00
M3000-40-914-40-AU000	4.00"	101.6	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 1572.00
M3000-40-1016-40-AU000	4.00"	101.6	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 1693.00
M3000-40-1219-40-AU000	4.00"	101.6	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 1935.00
ADD PER INCH (25.4mm)	4.00"	101.6	1.00”	25.4	2.00”			$ 31.00

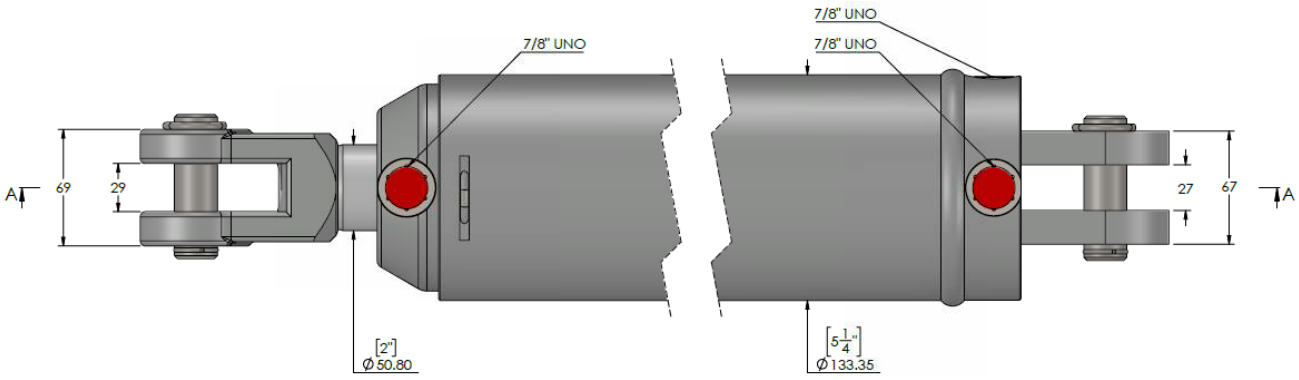


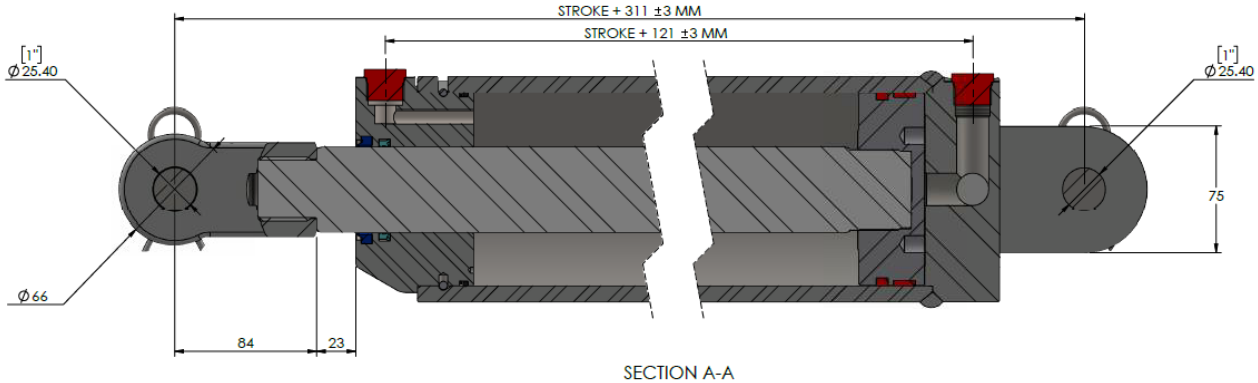


M3000 Welded Cylinders

4.50” Bore Welded Hydraulic Cylinders Wired Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
M3000-45-152-40-AU000	4.50"	114.3	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 1003.00
M3000-45-203-40-AU000	4.50"	114.3	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 1003.00
M3000-45-254-40-AU000	4.50"	114.3	10.00"	254	2.00"	22.25"	7/8" UNO	$ 1063.00
M3000-45-305-40-AU000	4.50"	114.3	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 1124.00
M3000-45-356-40-AU000	4.50"	114.3	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 1184.00
M3000-45-406-40-AU000	4.50"	114.3	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 1245.00
M3000-45-457-40-AU000	4.50"	114.3	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1305.00
M3000-45-508-40-AU000	4.50"	114.3	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1366.00
M3000-45-559-40-AU000	4.50"	114.3	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1426.00
M3000-45-610-40-AU000	4.50"	114.3	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1487.00
M3000-45-660-40-AU000	4.50"	114.3	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1547.00
M3000-45-711-40-AU000	4.50"	114.3	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1608.00
M3000-45-762-40-AU000	4.50"	114.3	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1668.00
M3000-45-813-40-AU000	4.50"	114.3	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 1729.00
M3000-45-914-40-AU000	4.50"	114.3	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 1850.00
M3000-45-1016-40-AU000	4.50"	114.3	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 1971.00
M3000-45-1219-40-AU000	4.50"	114.3	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 2213.00
ADD PER INCH (25.4mm)	4.50"	114.3	1.00”	25.4	2.00”			$ 31.00



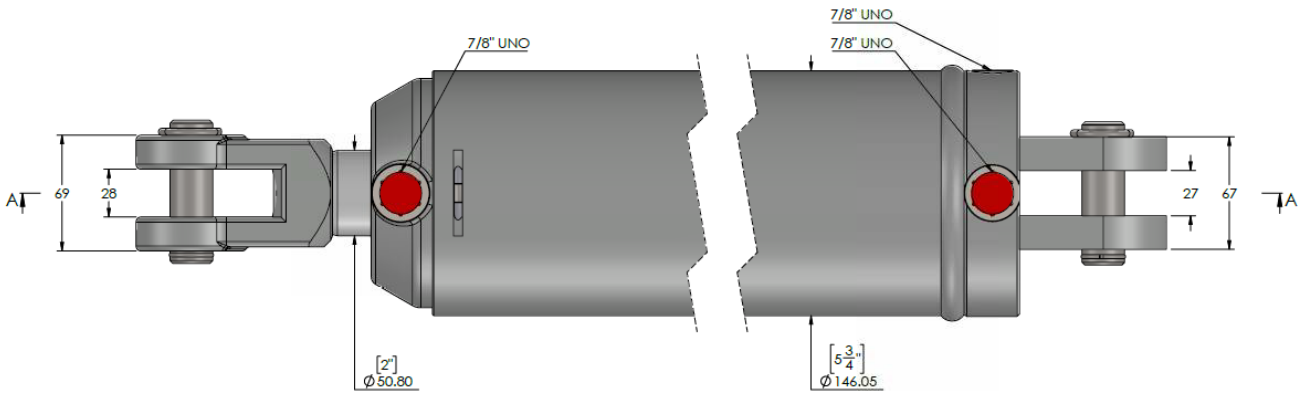


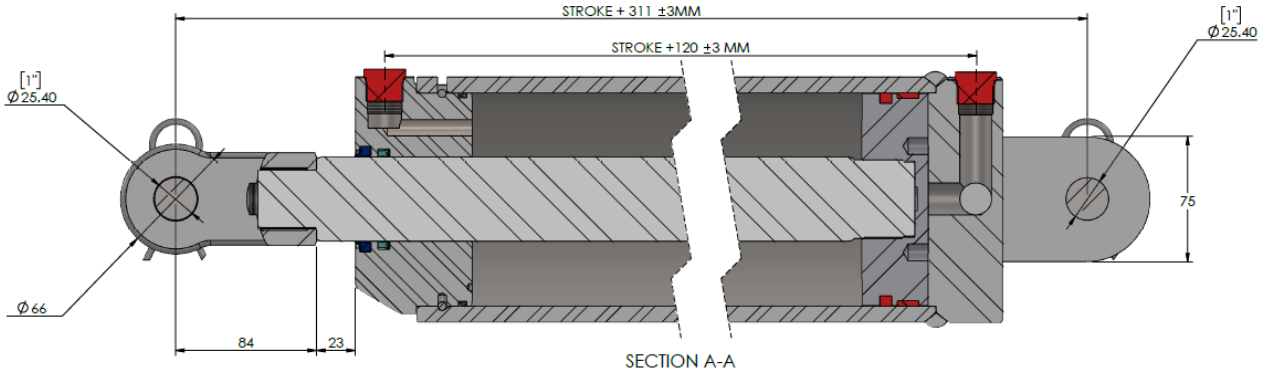
SECTION A-A

M3000 Welded Cylinders

5.00” Bore Welded Hydraulic Cylinders, Wired Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
M3000-50-152-40-AU000	5.00"	127	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 1179.00
M3000-50-203-40-AU000	5.00"	127	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 1179.00
M3000-50-254-40-AU000	5.00"	127	10.00"	254	2.00"	22.25"	7/8" UNO	$ 1251.00
M3000-50-305-40-AU000	5.00"	127	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 1324.00
M3000-50-356-40-AU000	5.00"	127	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 1396.00
M3000-50-406-40-AU000	5.00"	127	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 1469.00
M3000-50-457-40-AU000	5.00"	127	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1542.00
M3000-50-508-40-AU000	5.00"	127	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1614.00
M3000-50-559-40-AU000	5.00"	127	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1687.00
M3000-50-610-40-AU000	5.00"	127	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1759.00
M3000-50-660-40-AU000	5.00"	127	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1832.00
M3000-50-711-40-AU000	5.00"	127	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1905.00
M3000-50-762-40-AU000	5.00"	127	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1977.00
M3000-50-813-40-AU000	5.00"	127	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 2050.00
M3000-50-914-40-AU000	5.00"	127	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 2122.00
M3000-50-1016-40-AU000	5.00"	127	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 2195.00
M3000-50-1219-40-AU000	5.00"	127	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 2268.00
ADD PER INCH (25.4mm)	5.00"	127	1.00”	25.4	2.00”			$ 36.00



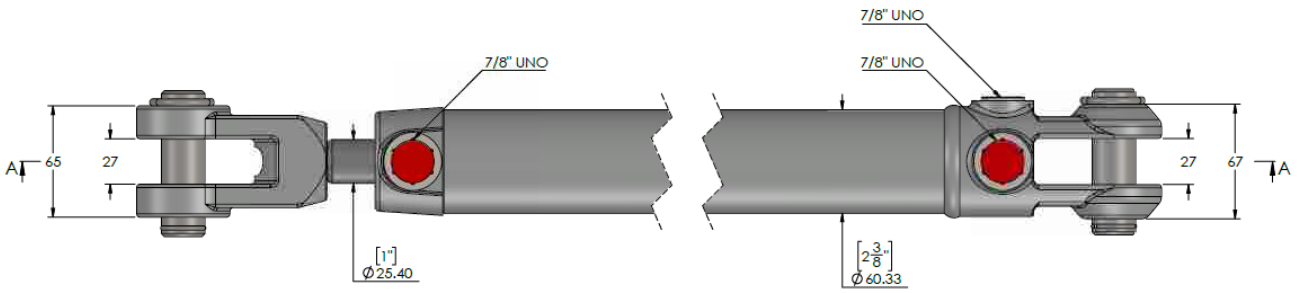


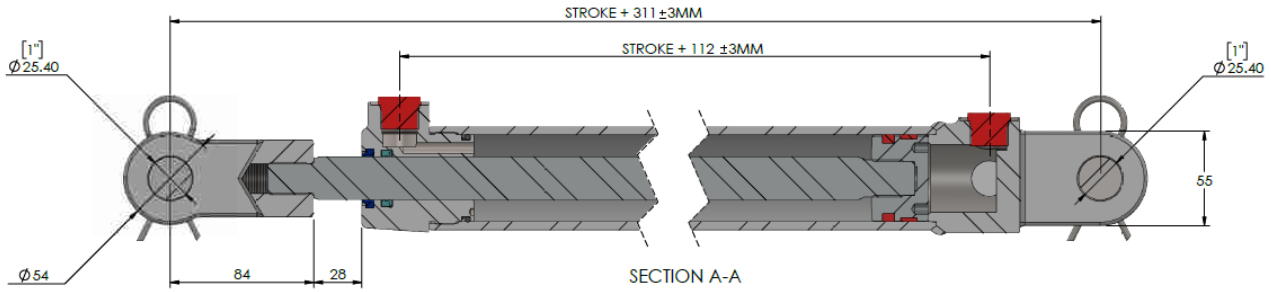
SECTION A-A

S3000 Welded Cylinders

2.00” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
S3000A-20-152-40-AU000	2.00"	50.8	6.00"	152.4	1.00"	18.25"	7/8" UNO	$ 423.00
S3000A-20-203-40-AU000	2.00"	50.8	8.00"	203.2	1.00"	20.25"	7/8" UNO	$ 423.00
S3000A-20-254-40-AU000	2.00"	50.8	10.00"	254	1.00"	22.25"	7/8" UNO	$ 447.00
S3000A-20-305-40-AU000	2.00"	50.8	12.00"	304.8	1.00"	24.25"	7/8" UNO	$ 471.00
S3000A-20-356-40-AU000	2.00"	50.8	14.00"	355.6	1.00"	26.25"	7/8" UNO	$ 495.00
S3000A-20-406-40-AU000	2.00"	50.8	16.00"	406.4	1.00"	28.25"	7/8" UNO	$ 520.00
S3000A-20-457-40-AU000	2.00"	50.8	18.00"	457.2	1.00"	30.25"	7/8" UNO	$ 544.00
S3000A-20-508-40-AU000	2.00"	50.8	20.00"	508	1.00"	32.25"	7/8" UNO	$ 568.00
S3000A-20-559-40-AU000	2.00"	50.8	22.00"	558.8	1.00"	34.25"	7/8" UNO	$ 592.00
S3000A-20-610-40-AU000	2.00"	50.8	24.00"	609.6	1.00"	36.25"	7/8" UNO	$ 616.00
S3000A-20-660-40-AU000	2.00"	50.8	26.00"	660.4	1.00"	38.25"	7/8" UNO	$ 641.00
S3000A-20-711-40-AU000	2.00"	50.8	28.00"	711.2	1.00"	40.25"	7/8" UNO	$ 665.00
S3000A-20-762-40-AU000	2.00"	50.8	30.00"	762	1.00"	42.25"	7/8" UNO	$ 689.00
S3000A-20-813-40-AU000	2.00"	50.8	32.00"	812.8	1.00"	44.25"	7/8" UNO	$ 784.00
S3000A-20-914-40-AU000	2.00"	50.8	36.00"	914.4	1.00"	48.25"	7/8" UNO	$ 762.00
S3000A-20-1016-40-AU000	2.00"	50.8	40.00"	1016	1.00"	52.25"	7/8" UNO	$ 810.00
S3000A-20-1219-40-AU000	2.00"	50.8	48.00"	1219.2	1.00"	60.25"	7/8" UNO	$ 907.00
ADD PER INCH (25.4mm)	2.00"	50.8	1.00”	25.4	1.00”			$ 12.00

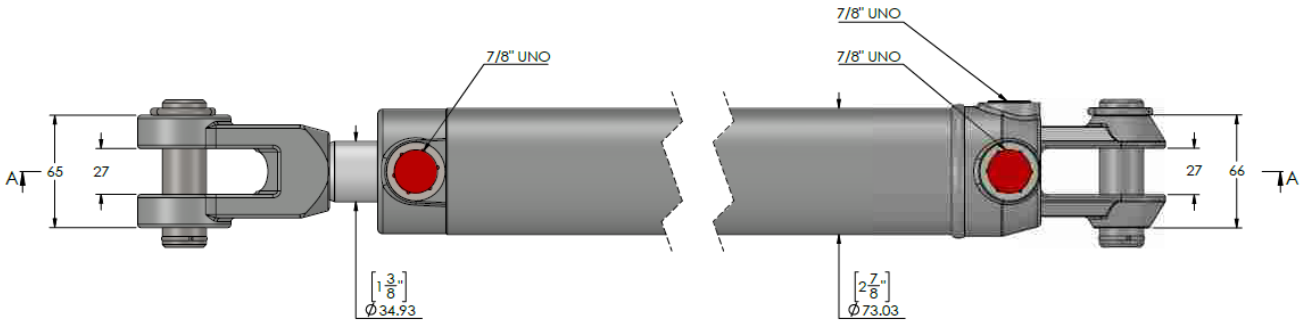


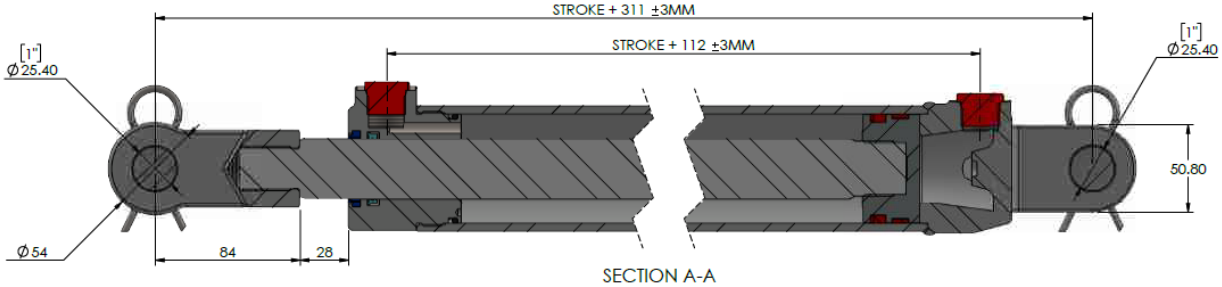


S3000 Welded Cylinders

2.50” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
S3000A-25-152-40-AU000	2.50"	63.5	6.00"	152	1.375"	18.25"	7/8" UNO	$ 426.00
S3000A-25-203-40-AU000	2.50"	63.5	8.00"	203	1.375"	20.25"	7/8" UNO	$ 426.00
S3000A-25-254-40-AU000	2.50"	63.5	10.00"	254	1.375"	22.25"	7/8" UNO	$ 450.00
S3000A-25-305-40-AU000	2.50"	63.5	12.00"	304.8	1.375"	24.25"	7/8" UNO	$ 475.00
S3000A-25-356-40-AU000	2.50"	63.5	14.00"	355.6	1.375"	26.25"	7/8" UNO	$ 499.00
S3000A-25-406-40-AU000	2.50"	63.5	16.00"	406.4	1.375"	28.25"	7/8" UNO	$ 523.00
S3000A-25-457-40-AU000	2.50"	63.5	18.00"	457.2	1.375"	30.25"	7/8" UNO	$ 547.00
S3000A-25-508-40-AU000	2.50"	63.5	20.00"	508	1.375"	32.25"	7/8" UNO	$ 571.00
S3000A-25-559-40-AU000	2.50"	63.5	22.00"	558.8	1.375"	34.25"	7/8" UNO	$ 596.00
S3000A-25-610-40-AU000	2.50"	63.5	24.00"	609.6	1.375"	36.25"	7/8" UNO	$ 620.00
S3000A-25-660-40-AU000	2.50"	63.5	26.00"	660.4	1.375"	38.25"	7/8" UNO	$ 644.00
S3000A-25-711-40-AU000	2.50"	63.5	28.00"	711.2	1.375"	40.25"	7/8" UNO	$ 668.00
S3000A-25-762-40-AU000	2.50"	63.5	30.00"	762	1.375"	42.25"	7/8" UNO	$ 692.00
S3000A-25-813-40-AU000	2.50"	63.5	32.00"	812.8	1.375"	44.25"	7/8" UNO	$ 717.00
S3000A-25-914-40-AU000	2.50"	63.5	36.00"	914.4	1.375"	48.25"	7/8" UNO	$ 765.00
S3000A-25-1016-40-AU000	2.50"	63.5	40.00"	1016	1.375"	52.25"	7/8" UNO	$ 813.00
S3000A-25-1219-40-AU000	2.50"	63.5	48.00"	1219.2	1.375"	60.25"	7/8" UNO	$ 910.00
ADD PER INCH (25.4mm)	2.50"	63.5	1.00”	25.4	1.375"			$ 12.00



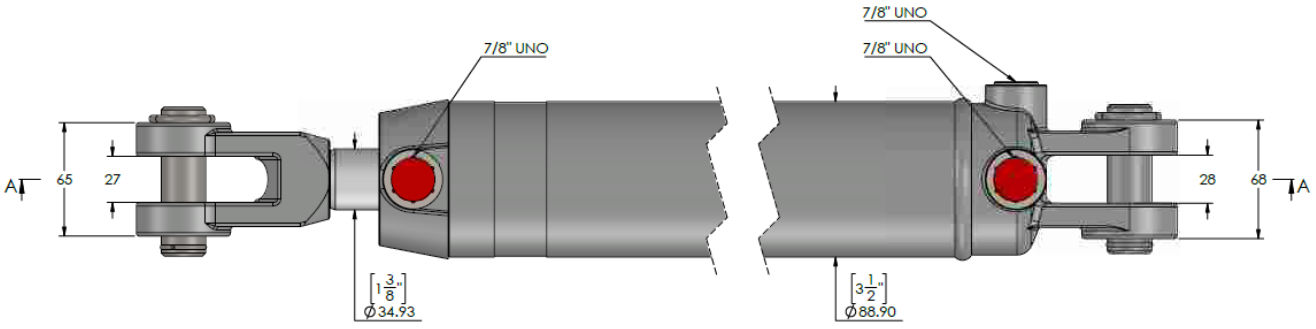


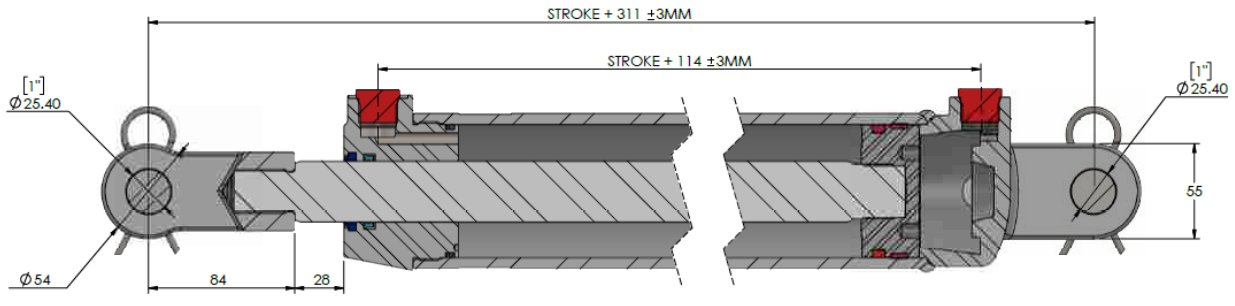
SECTION A-A

S3000 Welded Cylinders

3.00” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
S3000A-30-152-40-AU000	3.00"	76.2	6.00"	152.4	1.375"	18.25"	7/8" UNO	$ 498.00
S3000A-30-203-40-AU000	3.00"	76.2	8.00"	203.2	1.375"	20.25"	7/8" UNO	$ 498.00
S3000A-30-254-40-AU000	3.00"	76.2	10.00"	254	1.375"	22.25"	7/8" UNO	$ 534.00
S3000A-30-305-40-AU000	3.00"	76.2	12.00"	304.8	1.375"	24.25"	7/8" UNO	$ 570.00
S3000A-30-356-40-AU000	3.00"	76.2	14.00"	355.6	1.375"	26.25"	7/8" UNO	$ 607.00
S3000A-30-406-40-AU000	3.00"	76.2	16.00"	406.4	1.375"	28.25"	7/8" UNO	$ 643.00
S3000A-30-457-40-AU000	3.00"	76.2	18.00"	457.2	1.375"	30.25"	7/8" UNO	$ 679.00
S3000A-30-508-40-AU000	3.00"	76.2	20.00"	508	1.375"	32.25"	7/8" UNO	$ 715.00
S3000A-30-559-40-AU000	3.00"	76.2	22.00"	558.8	1.375"	34.25"	7/8" UNO	$ 752.00
S3000A-30-610-40-AU000	3.00"	76.2	24.00"	609.6	1.375"	36.25"	7/8" UNO	$ 788.00
S3000A-30-660-40-AU000	3.00"	76.2	26.00"	660.4	1.375"	38.25"	7/8" UNO	$ 824.00
S3000A-30-711-40-AU000	3.00"	76.2	28.00"	711.2	1.375"	40.25"	7/8" UNO	$ 861.00
S3000A-30-762-40-AU000	3.00"	76.2	30.00"	762	1.375"	42.25"	7/8" UNO	$ 897.00
S3000A-30-813-40-AU000	3.00"	76.2	32.00"	812.8	1.375"	44.25"	7/8" UNO	$ 933.00
S3000A-30-914-40-AU000	3.00"	76.2	36.00"	914.4	1.375"	48.25"	7/8" UNO	$ 1006.00
S3000A-30-1016-40-AU000	3.00"	76.2	40.00"	1016	1.375"	52.25"	7/8" UNO	$ 1079.00
S3000A-30-1219-40-AU000	3.00"	76.2	48.00"	1219.2	1.375"	60.25"	7/8" UNO	$ 1224.00
ADD PER INCH (25.4mm)	3.00"	76.2	1.00”	25.4	1.375"			$ 19.00



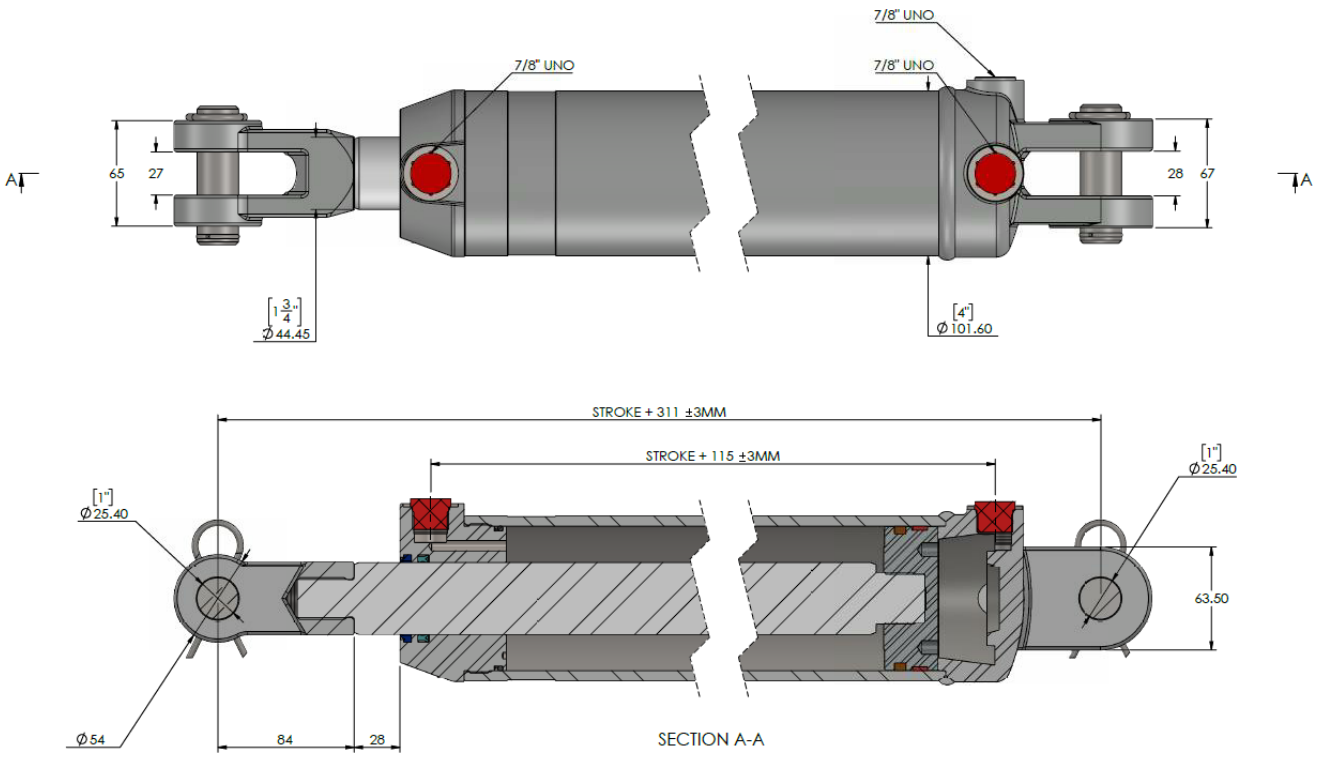


SECTION A-A

S3000 Welded Cylinders

3.50” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

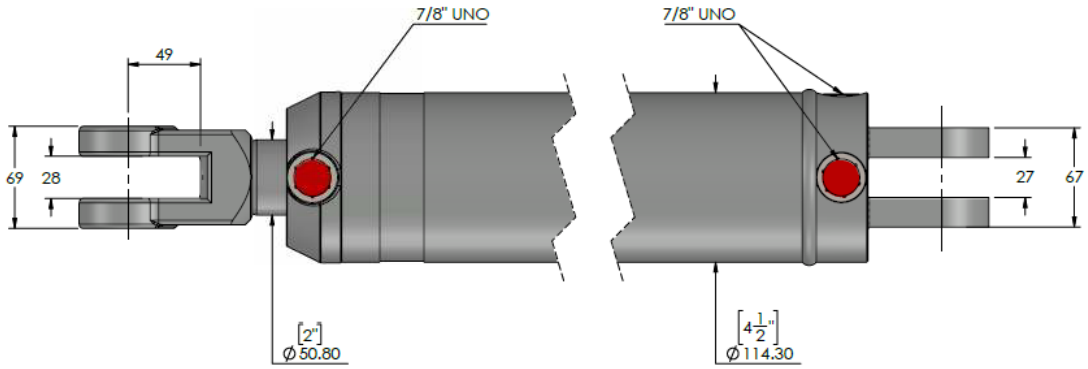
Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
S3000A-35-152-40-AU000	3.50"	88.9	6.00"	152.4	1.750"	18.25"	7/8" UNO	$ 642.00
S3000A-35-203-40-AU000	3.50"	88.9	8.00"	203.2	1.750"	20.25"	7/8" UNO	$ 642.00
S3000A-35-254-40-AU000	3.50"	88.9	10.00"	254	1.750"	22.25"	7/8" UNO	$ 690.00
S3000A-35-305-40-AU000	3.50"	88.9	12.00"	304.8	1.750"	24.25"	7/8" UNO	$ 739.00
S3000A-35-356-40-AU000	3.50"	88.9	14.00"	355.6	1.750"	26.25"	7/8" UNO	$ 787.00
S3000A-35-406-40-AU000	3.50"	88.9	16.00"	406.4	1.750"	28.25"	7/8" UNO	$ 835.00
S3000A-35-457-40-AU000	3.50"	88.9	18.00"	457.2	1.750"	30.25"	7/8" UNO	$ 884.00
S3000A-35-508-40-AU000	3.50"	88.9	20.00"	508	1.750"	32.25"	7/8" UNO	$ 932.00
S3000A-35-559-40-AU000	3.50"	88.9	22.00"	558.8	1.750"	34.25"	7/8" UNO	$ 981.00
S3000A-35-610-40-AU000	3.50"	88.9	24.00"	609.6	1.750"	36.25"	7/8" UNO	$ 1029.00
S3000A-35-660-40-AU000	3.50"	88.9	26.00"	660.4	1.750"	38.25"	7/8" UNO	$ 1077.00
S3000A-35-711-40-AU000	3.50"	88.9	28.00"	711.2	1.750"	40.25"	7/8" UNO	$ 1126.00
S3000A-35-762-40-AU000	3.50"	88.9	30.00"	762	1.750"	42.25"	7/8" UNO	$ 1174.00
S3000A-35-813-40-AU000	3.50"	88.9	32.00"	812.8	1.750"	44.25"	7/8" UNO	$ 1213.00
S3000A-35-914-40-AU000	3.50"	88.9	36.00"	914.4	1.750"	48.25"	7/8" UNO	$ 1319.00
S3000A-35-1016-40-AU000	3.50"	88.9	40.00"	1016	1.750"	52.25"	7/8" UNO	$ 1416.00
S3000A-35-1219-40-AU000	3.50"	88.9	48.00"	1219.2	1.750"	60.25"	7/8" UNO	$ 1610.00
ADD PER INCH (25.4mm)	3.50"	88.9	1.00”	25.4	1.750"			$ 24.00

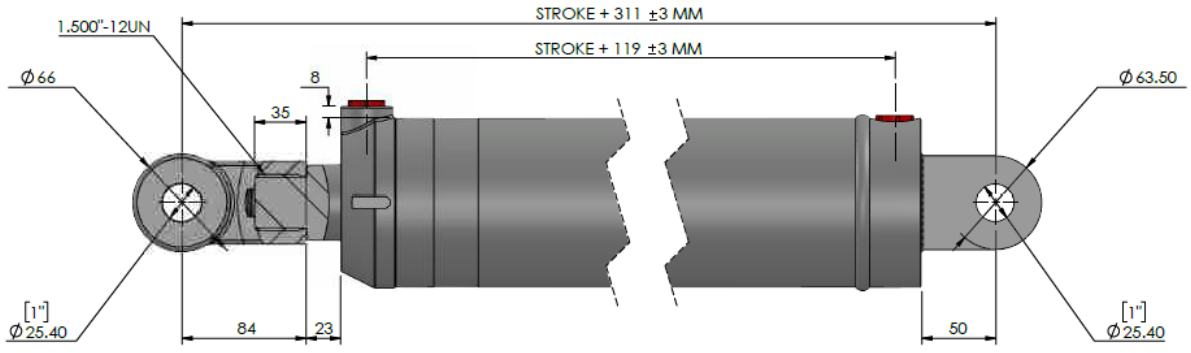


S3000 Welded Cylinders

4.00” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
S3000A-40-152-40-AU000	4.00"	101.6	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 755.00
S3000A-40-203-40-AU000	4.00"	101.6	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 755.00
S3000A-40-254-40-AU000	4.00"	101.6	10.00"	254	2.00"	22.25"	7/8" UNO	$ 816.00
S3000A-40-305-40-AU000	4.00"	101.6	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 846.00
S3000A-40-356-40-AU000	4.00"	101.6	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 907.00
S3000A-40-406-40-AU000	4.00"	101.6	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 967.00
S3000A-40-457-40-AU000	4.00"	101.6	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1028.00
S3000A-40-508-40-AU000	4.00"	101.6	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1088.00
S3000A-40-559-40-AU000	4.00"	101.6	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1149.00
S3000A-40-610-40-AU000	4.00"	101.6	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1209.00
S3000A-40-660-40-AU000	4.00"	101.6	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1270.00
S3000A-40-711-40-AU000	4.00"	101.6	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1330.00
S3000A-40-762-40-AU000	4.00"	101.6	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1391.00
S3000A-40-813-40-AU000	4.00"	101.6	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 1451.00
S3000A-40-914-40-AU000	4.00"	101.6	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 1572.00
S3000A-40-1016-40-AU000	4.00"	101.6	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 1693.00
S3000A-40-1219-40-AU000	4.00"	101.6	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 1935.00
ADD PER INCH (25.4mm)	4.00"	101.6	1.00”	25.4	2.00"			$ 31.00

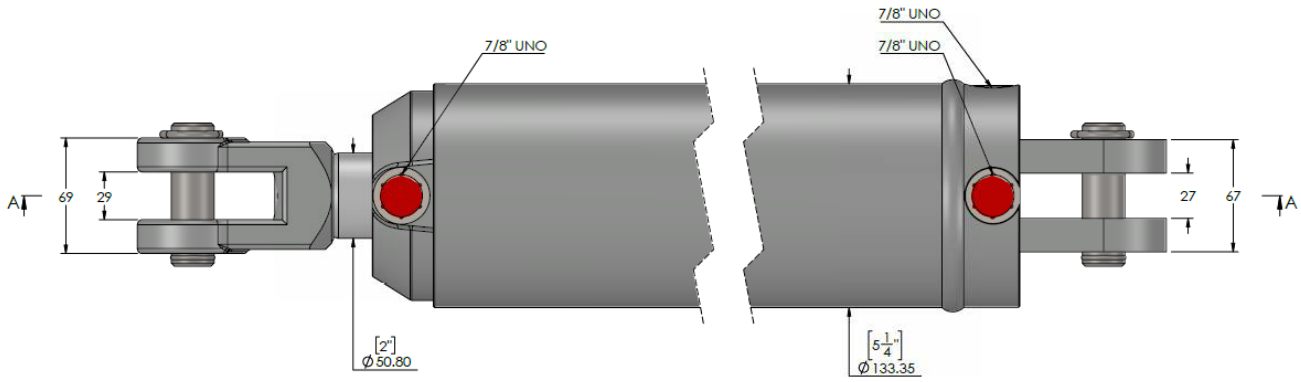


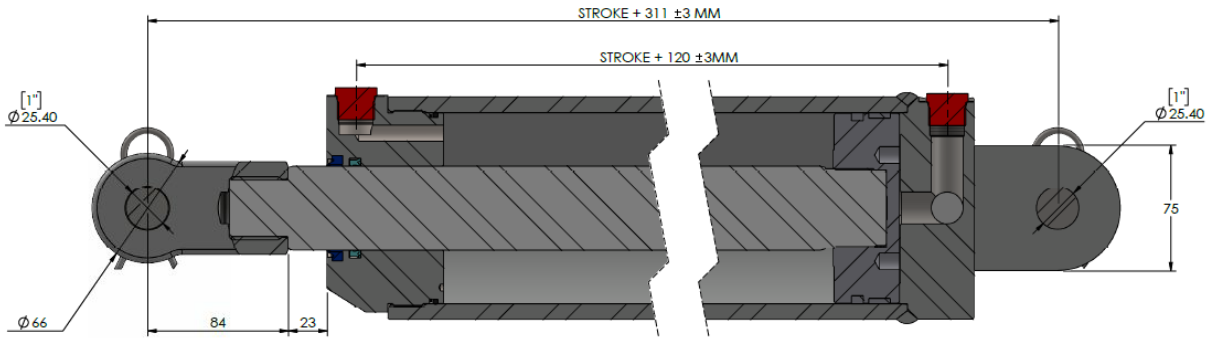


S3000 Welded Cylinders

4.50” Bore Welded Hydraulic Cylinders Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
S3000A-45-152-40-AU000	4.50"	114.3	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 1003.00
S3000A-45-203-40-AU000	4.50"	114.3	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 1003.00
S3000A-45-254-40-AU000	4.50"	114.3	10.00"	254	2.00"	22.25"	7/8" UNO	$ 1063.00
S3000A-45-305-40-AU000	4.50"	114.3	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 1124.00
S3000A-45-356-40-AU000	4.50"	114.3	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 1184.00
S3000A-45-406-40-AU000	4.50"	114.3	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 1245.00
S3000A-45-457-40-AU000	4.50"	114.3	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1305.00
S3000A-45-508-40-AU000	4.50"	114.3	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1366.00
S3000A-45-559-40-AU000	4.50"	114.3	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1426.00
S3000A-45-610-40-AU000	4.50"	114.3	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1487.00
S3000A-45-660-40-AU000	4.50"	114.3	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1547.00
S3000A-45-711-40-AU000	4.50"	114.3	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1608.00
S3000A-45-762-40-AU000	4.50"	114.3	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1668.00
S3000A-45-813-40-AU000	4.50"	114.3	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 1729.00
S3000A-45-914-40-AU000	4.50"	114.3	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 1850.00
S3000A-45-1016-40-AU000	4.50"	114.3	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 1971.00
S3000A-45-1219-40-AU000	4.50"	114.3	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 2213.00
ADD PER INCH (25.4mm)	4.50"	114.3	1.00”	25.4	2.00"			$ 31.00



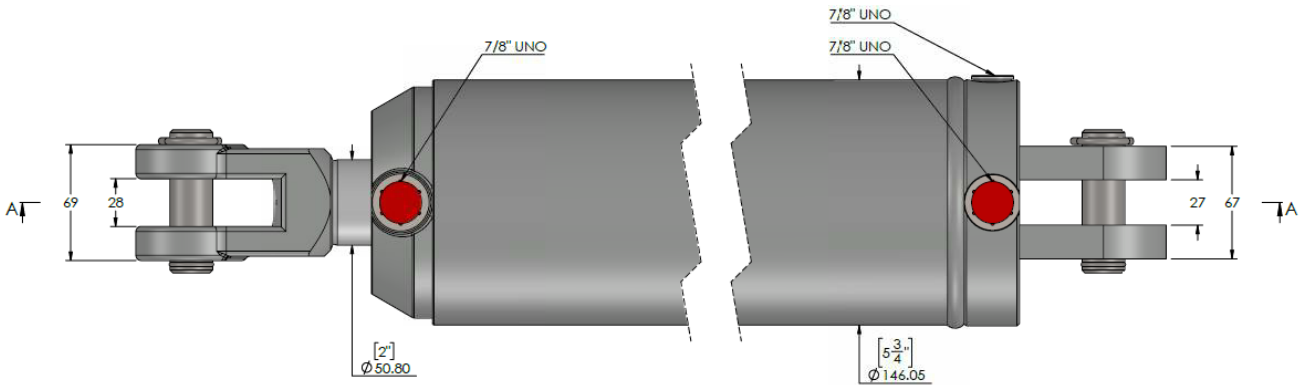


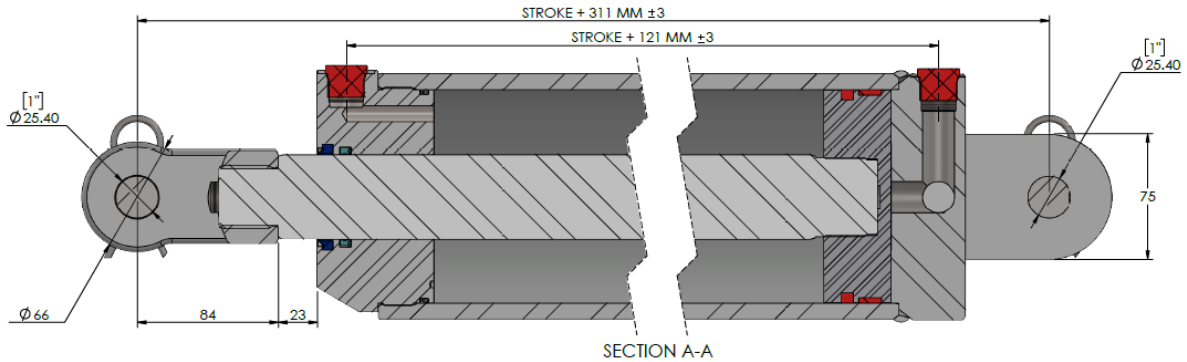
SECTION A-A

S3000 Welded Cylinders

5.00” Bore Welded Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
S3000A-50-152-40-AU000	5.00"	127	6.00"	152.4	2.00"	18.25"	7/8" UNO	$ 1179.00
S3000A-50-203-40-AU000	5.00"	127	8.00"	203.2	2.00"	20.25"	7/8" UNO	$ 1179.00
S3000A-50-254-40-AU000	5.00"	127	10.00"	254	2.00"	22.25"	7/8" UNO	$ 1251.00
S3000A-50-305-40-AU000	5.00"	127	12.00"	304.8	2.00"	24.25"	7/8" UNO	$ 1324.00
S3000A-50-356-40-AU000	5.00"	127	14.00"	355.6	2.00"	26.25"	7/8" UNO	$ 1396.00
S3000A-50-406-40-AU000	5.00"	127	16.00"	406.4	2.00"	28.25"	7/8" UNO	$ 1469.00
S3000A-50-457-40-AU000	5.00"	127	18.00"	457.2	2.00"	30.25"	7/8" UNO	$ 1542.00
S3000A-50-508-40-AU000	5.00"	127	20.00"	508	2.00"	32.25"	7/8" UNO	$ 1615.00
S3000A-50-559-40-AU000	5.00"	127	22.00"	558.8	2.00"	34.25"	7/8" UNO	$ 1687.00
S3000A-50-610-40-AU000	5.00"	127	24.00"	609.6	2.00"	36.25"	7/8" UNO	$ 1760.00
S3000A-50-660-40-AU000	5.00"	127	26.00"	660.4	2.00"	38.25"	7/8" UNO	$ 1832.00
S3000A-50-711-40-AU000	5.00"	127	28.00"	711.2	2.00"	40.25"	7/8" UNO	$ 1905.00
S3000A-50-762-40-AU000	5.00"	127	30.00"	762	2.00"	42.25"	7/8" UNO	$ 1978.00
S3000A-50-813-40-AU000	5.00"	127	32.00"	812.8	2.00"	44.25"	7/8" UNO	$ 2050.00
S3000A-50-914-40-AU000	5.00"	127	36.00"	914.4	2.00"	48.25"	7/8" UNO	$ 2123.00
S3000A-50-1016-40-AU000	5.00"	127	40.00"	1016	2.00"	52.25"	7/8" UNO	$ 2195.00
S3000A-50-1219-40-AU000	5.00"	127	48.00"	1219.2	2.00"	60.25"	7/8" UNO	$ 2268.00
ADD PER INCH (25.4mm)	5.00"	127	1.00”	25.4	2.00"			$ 36.00

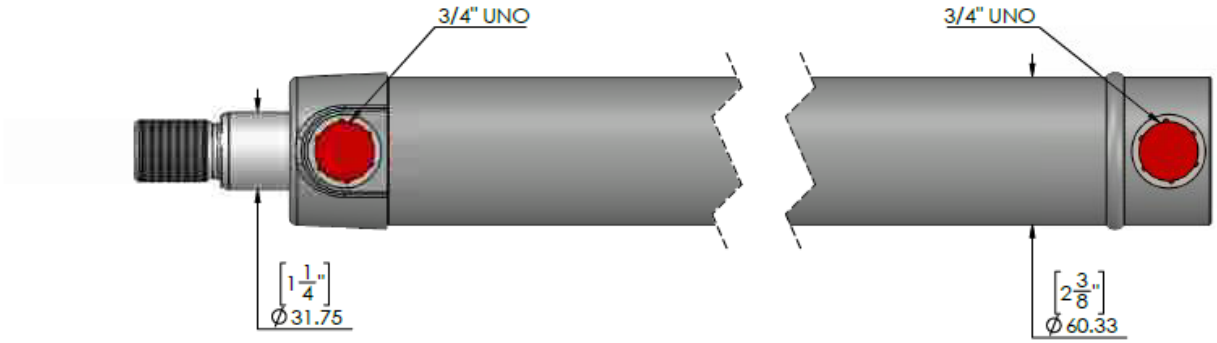


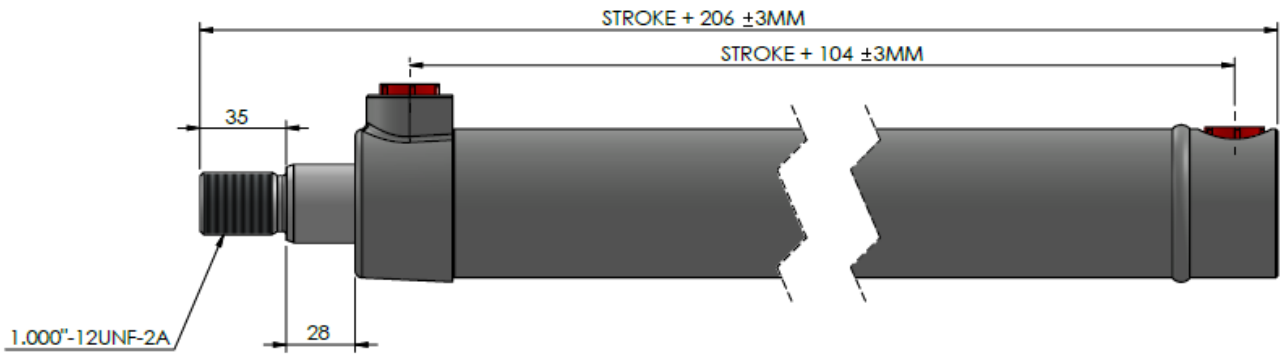


HPNM No Mount Cylinders

2.00” Bore No Mount Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPNM20060A125B	2.00"	50.8	6.00"	152.4	1.25"		3/4" UNO	$ 423.00
HPNM20080A125B	2.00"	50.8	8.00"	203.2	1.25"		3/4" UNO	$ 423.00
HPNM20100A125B	2.00"	50.8	10.00"	254	1.25"		3/4" UNO	$ 447.00
HPNM20120A125B	2.00"	50.8	12.00"	304.8	1.25"		3/4" UNO	$ 471.00
HPNM20140A125B	2.00"	50.8	14.00"	355.6	1.25"		3/4" UNO	$ 495.00
HPNM20160A125B	2.00"	50.8	16.00"	406.4	1.25"		3/4" UNO	$ 520.00
HPNM20180A125B	2.00"	50.8	18.00"	457.2	1.25"		3/4" UNO	$ 544.00
HPNM20200A125B	2.00"	50.8	20.00"	508	1.25"		3/4" UNO	$ 568.00
HPNM20220A125B	2.00"	50.8	22.00"	558.8	1.25"		3/4" UNO	$ 592.00
HPNM20240A125B	2.00"	50.8	24.00"	609.6	1.25"		3/4" UNO	$ 616.00
HPNM20260A125B	2.00"	50.8	26.00"	660.4	1.25"		3/4" UNO	$ 641.00
HPNM20280A125B	2.00"	50.8	28.00"	711.2	1.25"		3/4" UNO	$ 665.00
HPNM20300A125B	2.00"	50.8	30.00"	762	1.25"		3/4" UNO	$ 689.00
HPNM20320A125B	2.00"	50.8	32.00"	812.8	1.25"		3/4" UNO	$ 713.00
HPNM20360A125B	2.00"	50.8	36.00"	914.4	1.25"		3/4" UNO	$ 762.00
HPNM20400A125B	2.00"	50.8	40.00"	1016	1.25"		3/4" UNO	$ 810.00
HPNM20480A125B	2.00"	50.8	48.00"	1219.2	1.25"		3/4" UNO	$ 907.00
ADD PER INCH (25.4mm)	2.00"	50.8	1.00”	25.4	1.25"			$ 12.00

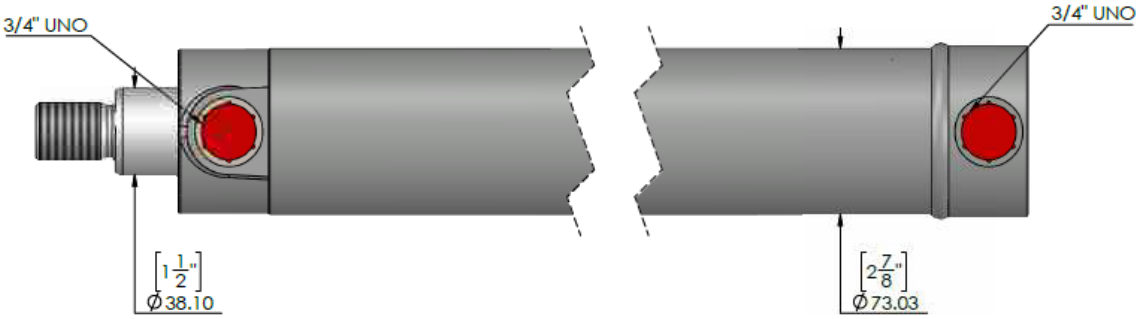


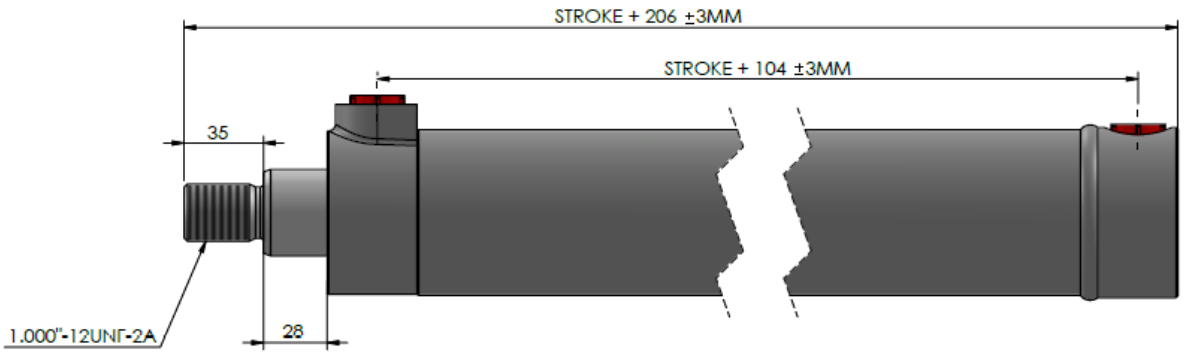


HPNM No Mount Cylinders

2.50” Bore No Mount Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPNM25060A150B	2.50"	63.5	6.00"	152.4	1.50"		3/4" UNO	$ 426.00
HPNM25080A150B	2.50"	63.5	8.00"	203.2	1.50"		3/4" UNO	$ 426.00
HPNM25100A150B	2.50"	63.5	10.00"	254	1.50"		3/4" UNO	$ 450.00
HPNM25120A150B	2.50"	63.5	12.00"	304.8	1.50"		3/4" UNO	$ 475.00
HPNM25140A150B	2.50"	63.5	14.00"	355.6	1.50"		3/4" UNO	$ 499.00
HPNM25160A150B	2.50"	63.5	16.00"	406.4	1.50"		3/4" UNO	$ 523.00
HPNM25180A150B	2.50"	63.5	18.00"	457.2	1.50"		3/4" UNO	$ 547.00
HPNM25200A150B	2.50"	63.5	20.00"	508	1.50"		3/4" UNO	$ 571.00
HPNM25220A150B	2.50"	63.5	22.00"	558.8	1.50"		3/4" UNO	$ 596.00
HPNM25240A150B	2.50"	63.5	24.00"	609.6	1.50"		3/4" UNO	$ 620.00
HPNM25260A150B	2.50"	63.5	26.00"	660.4	1.50"		3/4" UNO	$ 644.00
HPNM25280A150B	2.50"	63.5	28.00"	711.2	1.50"		3/4" UNO	$ 668.00
HPNM25300A150B	2.50"	63.5	30.00"	762	1.50"		3/4" UNO	$ 692.00
HPNM25320A150B	2.50"	63.5	32.00"	812.8	1.50"		3/4" UNO	$ 717.00
HPNM25360A150B	2.50"	63.5	36.00"	914.4	1.50"		3/4" UNO	$ 765.00
HPNM25400A150B	2.50"	63.5	40.00"	1016	1.50"		3/4" UNO	$ 813.00
HPNM25480A150B	2.50"	63.5	48.00"	1219.2	1.50"		3/4" UNO	$ 910.00
ADD PER INCH (25.4mm)	2.50"	63.5	1.00”	25.4	1.50”			$ 12.00

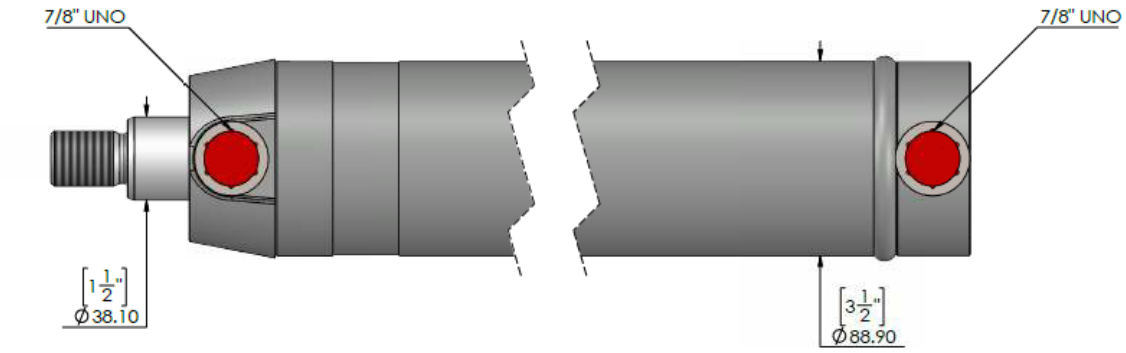


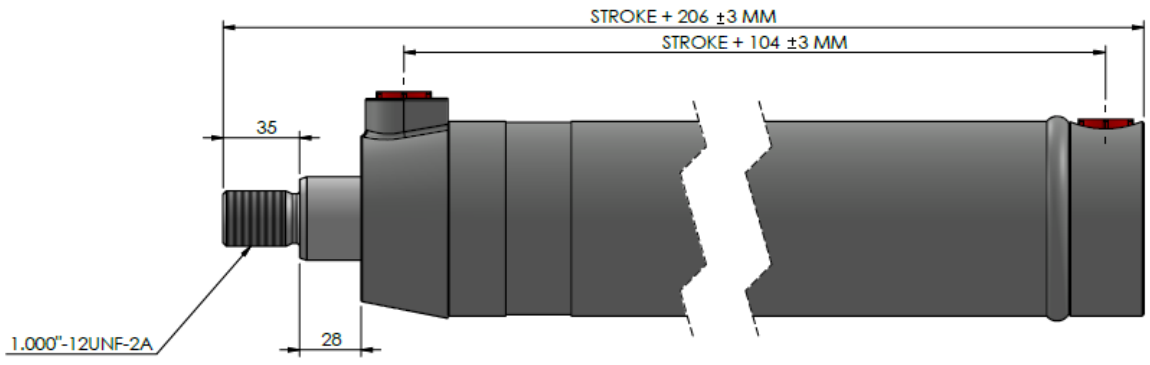


HPNM No Mount Cylinders

3.00” Bore No Mount Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPNM30060A150C	3.00"	76.2	6.00"	152.4	1.50"		7/8" UNO	$ 498.00
HPNM30080A150C	3.00"	76.2	8.00"	203.2	1.50"		7/8" UNO	$ 498.00
HPNM30100A150C	3.00"	76.2	10.00"	254	1.50"		7/8" UNO	$ 485.00
HPNM30120A150C	3.00"	76.2	12.00"	304.8	1.50"		7/8" UNO	$ 570.00
HPNM30140A150C	3.00"	76.2	14.00"	355.6	1.50"		7/8" UNO	$ 607.00
HPNM30160A150C	3.00"	76.2	16.00"	406.4	1.50"		7/8" UNO	$ 643.00
HPNM30180A150C	3.00"	76.2	18.00"	457.2	1.50"		7/8" UNO	$ 679.00
HPNM30200A150C	3.00"	76.2	20.00"	508	1.50"		7/8" UNO	$ 715.00
HPNM30220A150C	3.00"	76.2	22.00"	558.8	1.50"		7/8" UNO	$ 752.00
HPNM30240A150C	3.00"	76.2	24.00"	609.6	1.50"		7/8" UNO	$ 788.00
HPNM30260A150C	3.00"	76.2	26.00"	660.4	1.50"		7/8" UNO	$ 824.00
HPNM30280A150C	3.00"	76.2	28.00"	711.2	1.50"		7/8" UNO	$ 861.00
HPNM30300A150C	3.00"	76.2	30.00"	762	1.50"		7/8" UNO	$ 897.00
HPNM30320A150C	3.00"	76.2	32.00"	812.8	1.50"		7/8" UNO	$ 933.00
HPNM30360A150C	3.00"	76.2	36.00"	914.4	1.50"		7/8" UNO	$ 1006.00
HPNM30400A150C	3.00"	76.2	40.00"	1016	1.50"		7/8" UNO	$ 1078.00
HPNM30480A150C	3.00"	76.2	48.00"	1219.2	1.50"		7/8" UNO	$ 1224.00
ADD PER INCH (25.4mm)	3.00"	76.2	1.00”	25.4	1.50”			$ 19.00

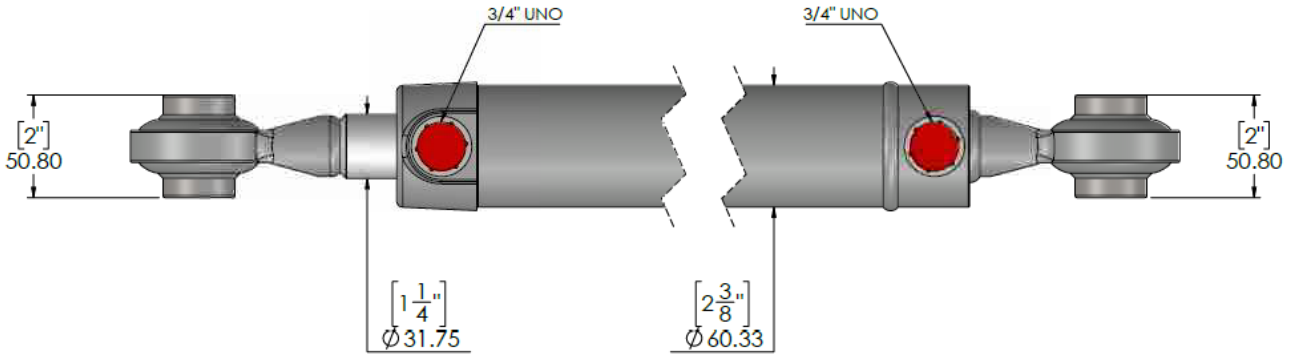


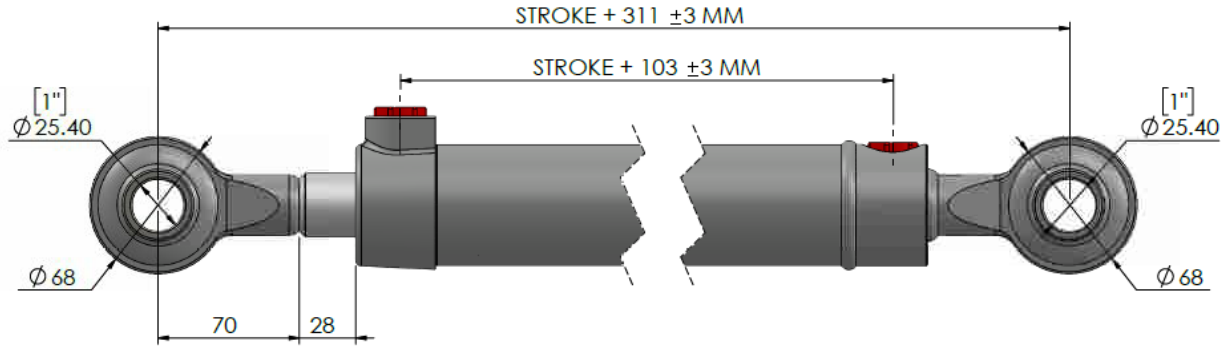


HPTL Toplink Cylinders

2.00” Bore Toplink Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPTL20060A125B	2.00"	50.8	6.00"	152.4	1.25"	18.25"	3/4" UNO	$ 495.00
HPTL20080A125B	2.00"	50.8	8.00"	203.2	1.25"	20.25"	3/4" UNO	$ 495.00
HPTL20100A125B	2.00"	50.8	10.00"	254	1.25"	22.25"	3/4" UNO	$ 520.00
HPTL20120A125B	2.00"	50.8	12.00"	304.8	1.25"	24.25"	3/4" UNO	$ 544.00
HPTL20140A125B	2.00"	50.8	14.00"	355.6	1.25"	26.25"	3/4" UNO	$ 568.00
HPTL20160A125B	2.00"	50.8	16.00"	406.4	1.25"	28.25"	3/4" UNO	$ 592.00
HPTL20180A125B	2.00"	50.8	18.00"	457.2	1.25"	30.25"	3/4" UNO	$ 616.00
HPTL20200A125B	2.00"	50.8	20.00"	508	1.25"	32.25"	3/4" UNO	$ 641.00
HPTL20220A125B	2.00"	50.8	22.00"	558.8	1.25"	34.25"	3/4" UNO	$ 665.00
HPTL20240A125B	2.00"	50.8	24.00"	609.6	1.25"	36.25"	3/4" UNO	$ 689.00
HPTL20260A125B	2.00"	50.8	26.00"	660.4	1.25"	38.25"	3/4" UNO	$ 713.00
HPTL20280A125B	2.00"	50.8	28.00"	711.2	1.25"	40.25"	3/4" UNO	$ 737.00
HPTL20300A125B	2.00"	50.8	30.00"	762	1.25"	42.25"	3/4" UNO	$ 762.00
HPTL20320A125B	2.00"	50.8	32.00"	812.8	1.25"	44.25"	3/4" UNO	$ 786.00
HPTL20360A125B	2.00"	50.8	36.00"	914.4	1.25"	48.25"	3/4" UNO	$ 834.00
HPTL20400A125B	2.00"	50.8	40.00"	1016	1.25"	52.25"	3/4" UNO	$ 883.00
HPTL20480A125B	2.00"	50.8	48.00"	1219.2	1.25"	60.25"	3/4" UNO	$ 979.00
ADD PER INCH (25.4mm)	2.00"	50.8	1.00”	25.4	1.25"			$ 12.00

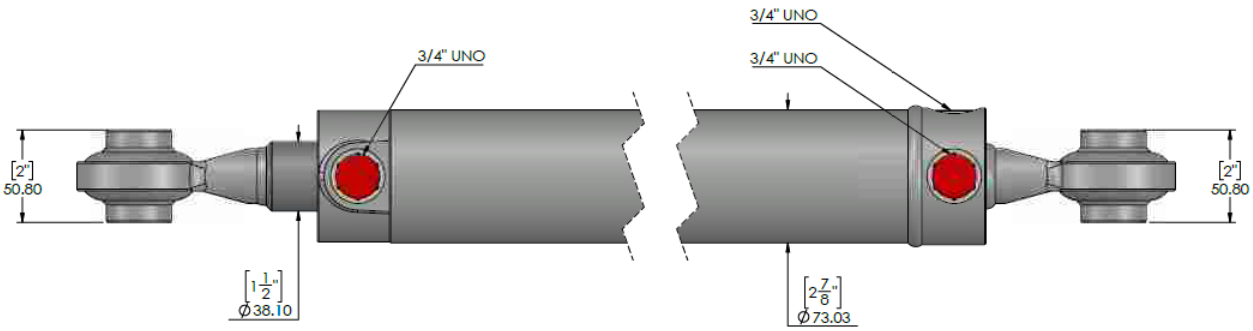


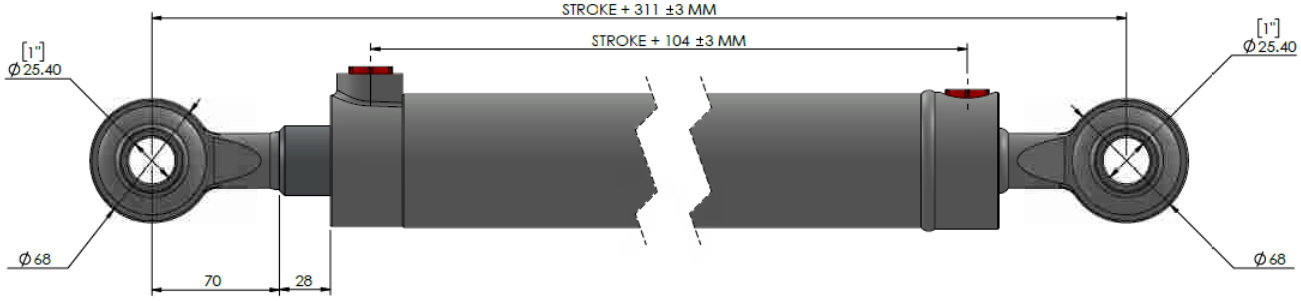


HPTL Toplink Cylinders

2.50” Bore Toplink Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPTL25060A150B	2.50"	63.5	6.00"	152.4	1.50"	18.25"	3/4" UNO	$ 499.00
HPTL25080A150B	2.50"	63.5	8.00"	203.2	1.50"	20.25"	3/4" UNO	$ 499.00
HPTL25100A150B	2.50"	63.5	10.00"	254	1.50"	22.25"	3/4" UNO	$ 523.00
HPTL25120A150B	2.50"	63.5	12.00"	304.8	1.50"	24.25"	3/4" UNO	$ 547.00
HPTL25140A150B	2.50"	63.5	14.00"	355.6	1.50"	26.25"	3/4" UNO	$ 571.00
HPTL25160A150B	2.50"	63.5	16.00"	406.4	1.50"	28.25"	3/4" UNO	$ 596.00
HPTL25180A150B	2.50"	63.5	18.00"	457.2	1.50"	30.25"	3/4" UNO	$ 620.00
HPTL25200A150B	2.50"	63.5	20.00"	508	1.50"	32.25"	3/4" UNO	$ 644.00
HPTL25220A150B	2.50"	63.5	22.00"	558.8	1.50"	34.25"	3/4" UNO	$ 668.00
HPTL25240A150B	2.50"	63.5	24.00"	609.6	1.50"	36.25"	3/4" UNO	$ 692.00
HPTL25260A150B	2.50"	63.5	26.00"	660.4	1.50"	38.25"	3/4" UNO	$ 717.00
HPTL25280A150B	2.50"	63.5	28.00"	711.2	1.50"	40.25"	3/4" UNO	$ 741.00
HPTL25300A150B	2.50"	63.5	30.00"	762	1.50"	42.25"	3/4" UNO	$ 765.00
HPTL25320A150B	2.50"	63.5	32.00"	812.8	1.50"	44.25"	3/4" UNO	$ 789.00
HPTL25360A150B	2.50"	63.5	36.00"	914.4	1.50"	48.25"	3/4" UNO	$ 838.00
HPTL25400A150B	2.50"	63.5	40.00"	1016	1.50"	52.25"	3/4" UNO	$ 886.00
HPTL25480A150B	2.50"	63.5	48.00"	1219.2	1.50"	60.25"	3/4" UNO	$ 983.00
ADD PER INCH (25.4mm)	2.50"	63.5	1.00”	25.4	1.50"			$ 12.00

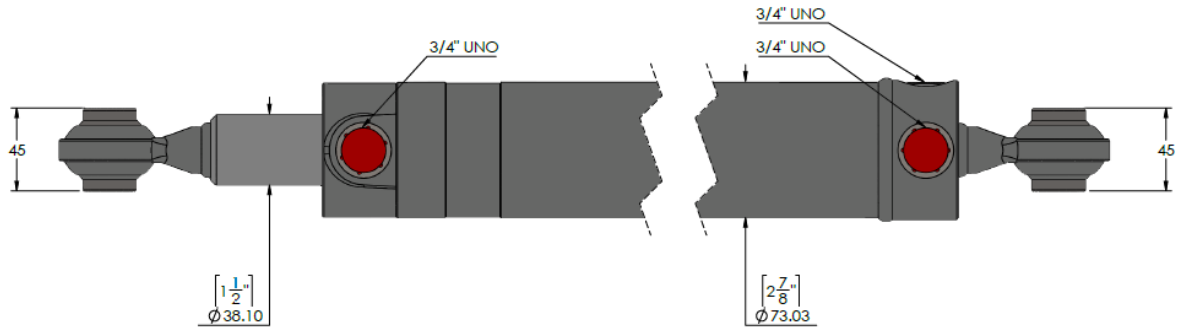


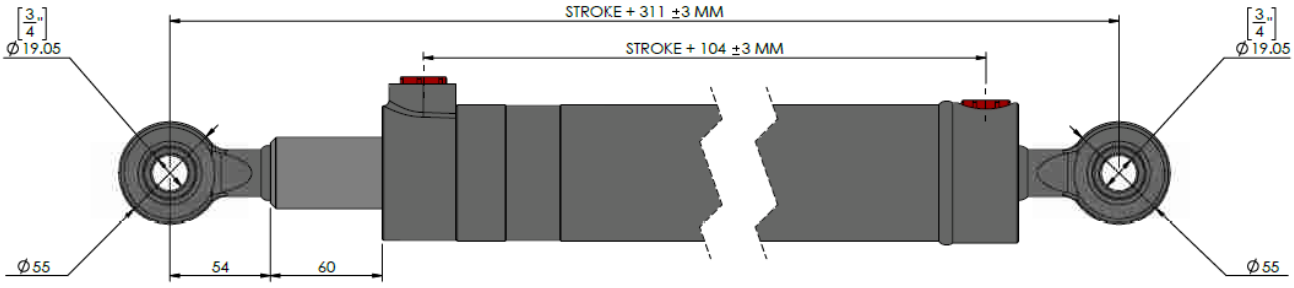


HPTL Toplink Cylinders

2.50” Bore Toplink Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPTL25060A150B1	2.50"	63.5	6.00"	152.4	1.50"	18.25"	3/4" UNO	$ 499.00
HPTL25080A150B1	2.50"	63.5	8.00"	203.2	1.50"	20.25"	3/4" UNO	$ 499.00
HPTL25100A150B1	2.50"	63.5	10.00"	254	1.50"	22.25"	3/4" UNO	$ 523.00
HPTL25120A150B1	2.50"	63.5	12.00"	304.8	1.50"	24.25"	3/4" UNO	$ 547.00
HPTL25140A150B1	2.50"	63.5	14.00"	355.6	1.50"	26.25"	3/4" UNO	$ 571.00
HPTL25160A150B1	2.50"	63.5	16.00"	406.4	1.50"	28.25"	3/4" UNO	$ 596.00
HPTL25180A150B1	2.50"	63.5	18.00"	457.2	1.50"	30.25"	3/4" UNO	$ 620.00
HPTL25200A150B1	2.50"	63.5	20.00"	508	1.50"	32.25"	3/4" UNO	$ 644.00
HPTL25220A150B1	2.50"	63.5	22.00"	558.8	1.50"	34.25"	3/4" UNO	$ 668.00
HPTL25240A150B1	2.50"	63.5	24.00"	609.6	1.50"	36.25"	3/4" UNO	$ 692.00
HPTL25260A150B1	2.50"	63.5	26.00"	660.4	1.50"	38.25"	3/4" UNO	$ 717.00
HPTL25280A150B1	2.50"	63.5	28.00"	711.2	1.50"	40.25"	3/4" UNO	$ 741.00
HPTL25300A150B1	2.50"	63.5	30.00"	762	1.50"	42.25"	3/4" UNO	$ 765.00
HPTL25320A150B1	2.50"	63.5	32.00"	812.8	1.50"	44.25"	3/4" UNO	$ 789.00
HPTL25360A150B1	2.50"	63.5	36.00"	914.4	1.50"	48.25"	3/4" UNO	$ 838.00
HPTL25400A150B1	2.50"	63.5	40.00"	1016	1.50"	52.25"	3/4" UNO	$ 886.00
HPTL25480A150B1	2.50"	63.5	48.00"	1219.2	1.50"	60.25"	3/4" UNO	$ 983.00
ADD PER INCH (25.4mm)	2.50"	63.5	1.00”	25.4	1.50"			$ 12.00

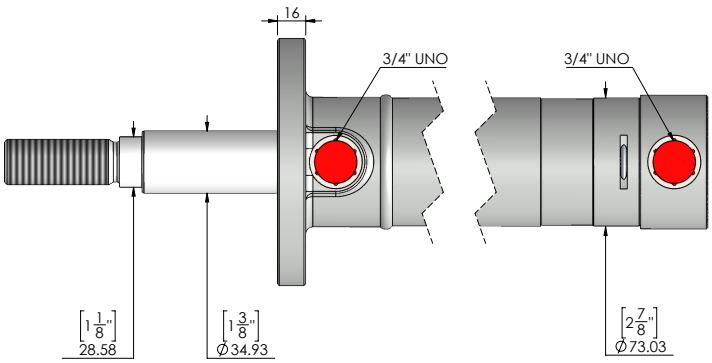


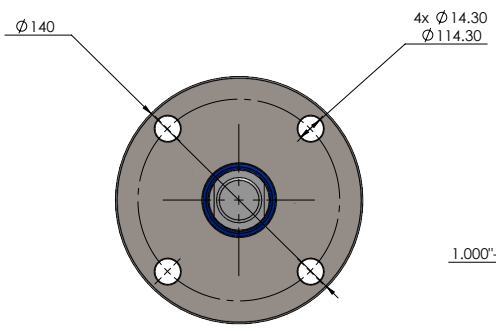


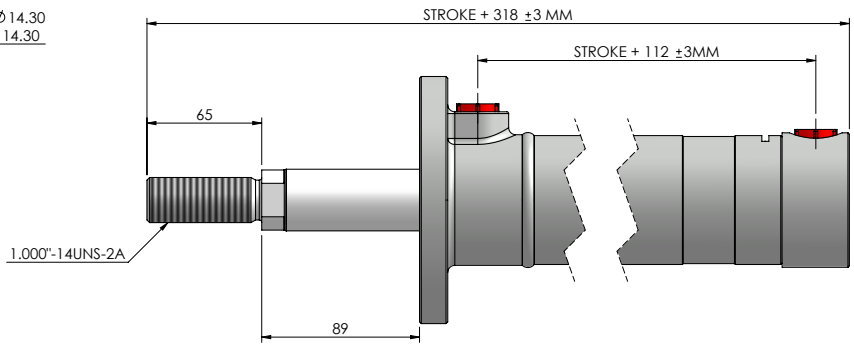
H No Cylinders

2.50” Bore Circular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
H-5941-25	2.50"	63.5		25	1.375"		3/4" UNO	$ 697.00
H-5941-50	2.50"	63.5		50	1.375"		3/4" UNO	$ 709.00
H-5941-75	2.50"	63.5		75	1.375"		3/4" UNO	$ 721.00
H-5941-100	2.50"	63.5		100	1.375"		3/4" UNO	$ 733.00
H-5941-125	2.50"	63.5		125	1.375"		3/4" UNO	$ 745.00
H-5941-150	2.50"	63.5		150	1.375"		3/4" UNO	$ 757.00
H-5941-175	2.50"	63.5		175	1.375"		3/4" UNO	$ 769.00
H-5941-200	2.50"	63.5		200	1.375"		3/4" UNO	$ 781.00
H-5941-250	2.50"	63.5		250	1.375"		3/4" UNO	$ 806.00
H-5941-300	2.50"	63.5		300	1.375"		3/4" UNO	$ 830.00
H-5941-350	2.50"	63.5		350	1.375"		3/4" UNO	$ 854.00
H-5941-400	2.50"	63.5		400	1.375"		3/4" UNO	$ 878.00
H-5941-450	2.50"	63.5		450	1.375"		3/4" UNO	$ 902.00
H-5941-500	2.50"	63.5		500	1.375"		3/4" UNO	$ 951.00
H-5941-600	2.50"	63.5		600	1.375"		3/4" UNO	$ 999.00
H-5941-700	2.50"	63.5		700	1.375"		3/4" UNO	$ 1048.00
H-5941-800	2.50"	63.5		800	1.375"		3/4" UNO	$ 1096.00
H-5941-900	2.50"	63.5		900	1.375"		3/4" UNO	$ 1144.00
H-5941-1000	2.50"	63.5		1000	1.375"		3/4" UNO	$ 1193.00
ADD PER 25mm	2.50"	63.5		25.4	1.375"			$ 12.00



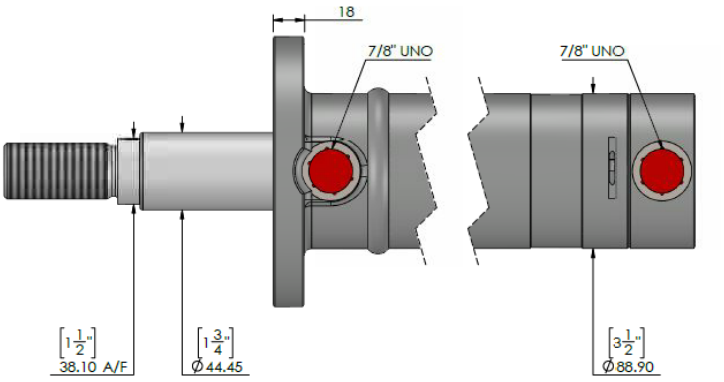


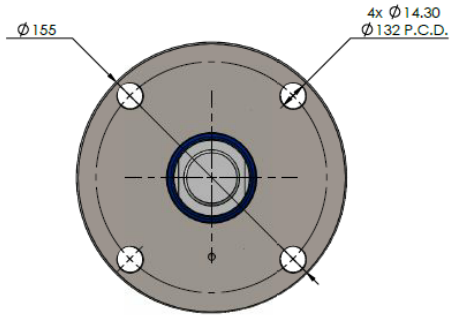


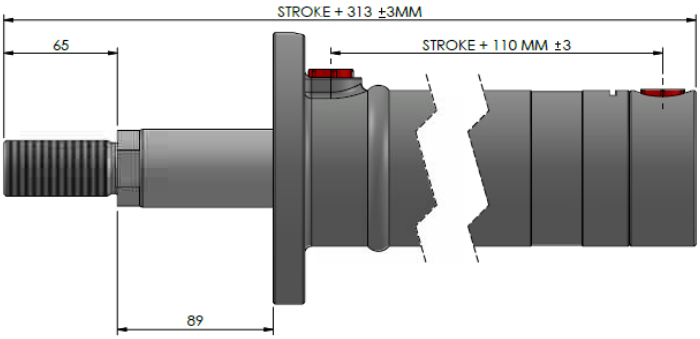
H No Welded Cylinders

3.00” Bore Circular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
H-6009-25	3.00"	76.2		25	1.750"		7/8" UNO	$ 801.00
H-6009-50	3.00"	76.2		50	1.750"		7/8" UNO	$ 820.00
H-6009-75	3.00"	76.2		75	1.750"		7/8" UNO	$ 838.00
H-6009-100	3.00"	76.2		100	1.750"		7/8" UNO	$ 856.00
H-6009-125	3.00"	76.2		125	1.750"		7/8" UNO	$ 874.00
H-6009-150	3.00"	76.2		150	1.750"		7/8" UNO	$ 893.00
H-6009-175	3.00"	76.2		175	1.750"		7/8" UNO	$ 910.00
H-6009-200	3.00"	76.2		200	1.750"		7/8" UNO	$ 929.00
H-6009-250	3.00"	76.2		250	1.750"		7/8" UNO	$ 965.00
H-6009-300	3.00"	76.2		300	1.750"		7/8" UNO	$ 1001.00
H-6009-350	3.00"	76.2		350	1.750"		7/8" UNO	$ 1038.00
H-6009-400	3.00"	76.2		400	1.750"		7/8" UNO	$ 1074.00
H-6009-450	3.00"	76.2		450	1.750"		7/8" UNO	$ 1110.00
H-6009-500	3.00"	76.2		500	1.750"		7/8" UNO	$ 1147.00
H-6009-600	3.00"	76.2		600	1.750"		7/8" UNO	$ 1219.00
H-6009-700	3.00"	76.2		700	1.750"		7/8" UNO	$ 1292.00
H-6009-800	3.00"	76.2		800	1.750"		7/8" UNO	$ 1364.00
H-6009-900	3.00"	76.2		900	1.750"		7/8" UNO	$ 1437.00
H-6009-1000	3.00"	76.2		1000	1.750"		7/8" UNO	$ 1510.00
ADD PER 25mm	3.00"	76.2		25.4	1.750"			$ 19.00



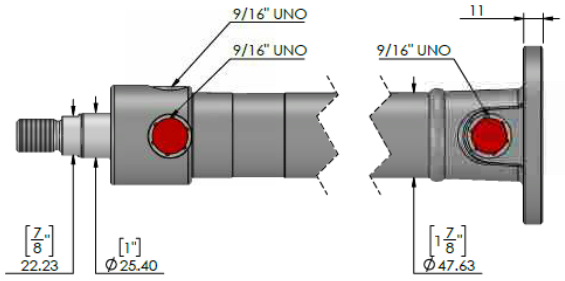


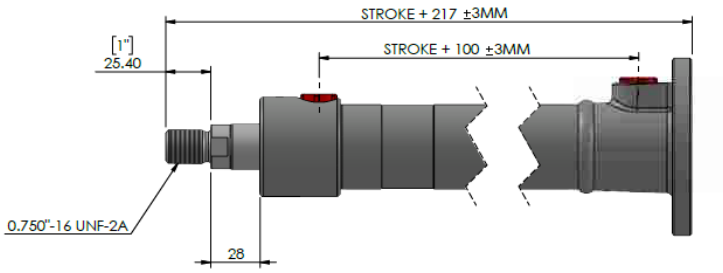


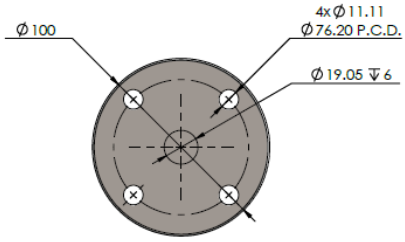
CFC Welded Cylinders

1.50” Bore Circular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFC150025AA100	1.50"	38.1		25	1.00"		9/16” UNO	$ 523.00
CFC150050AA100	1.50"	38.1		50	1.00"		9/16” UNO	$ 535.00
CFC150075AA100	1.50"	38.1		75	1.00"		9/16” UNO	$ 547.00
CFC150100AA100	1.50"	38.1		100	1.00"		9/16” UNO	$ 559.00
CFC150125AA100	1.50"	38.1		125	1.00"		9/16” UNO	$ 571.00
CFC150150AA100	1.50"	38.1		150	1.00"		9/16” UNO	$ 583.00
CFC150175AA100	1.50"	38.1		175	1.00"		9/16” UNO	$ 596.00
CFC150200AA100	1.50"	38.1		200	1.00"		9/16” UNO	$ 608.00
CFC150250AA100	1.50"	38.1		250	1.00"		9/16” UNO	$ 632.00
CFC150300AA100	1.50"	38.1		300	1.00"		9/16” UNO	$ 656.00
CFC150350AA100	1.50"	38.1		350	1.00"		9/16” UNO	$ 680.00
CFC150400AA100	1.50"	38.1		400	1.00"		9/16” UNO	$ 704.00
CFC150450AA100	1.50"	38.1		450	1.00"		9/16” UNO	$ 729.00
CFC150500AA100	1.50"	38.1		500	1.00"		9/16” UNO	$ 753.00
CFC150600AA100	1.50"	38.1		600	1.00"		9/16” UNO	$ 801.00
CFC150700AA100	1.50"	38.1		700	1.00"		9/16” UNO	$ 850.00
CFC150800AA100	1.50"	38.1		800	1.00"		9/16” UNO	$ 898.00
CFC150900AA100	1.50"	38.1		900	1.00"		9/16” UNO	$ 946.00
CFC151000AA100	1.50"	38.1		1000	1.00"		9/16” UNO	$ 995.00
ADD PER 25mm	1.50"	38.1		25	1.00”			$ 12.00



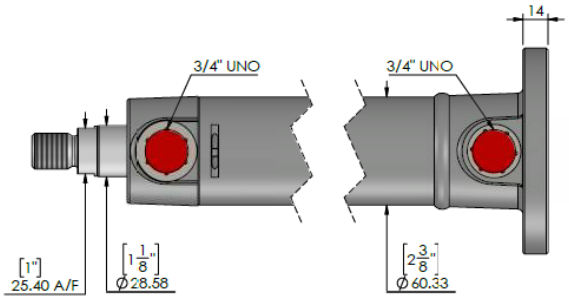


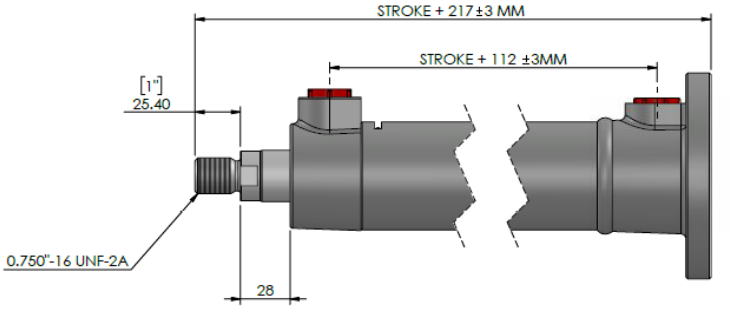


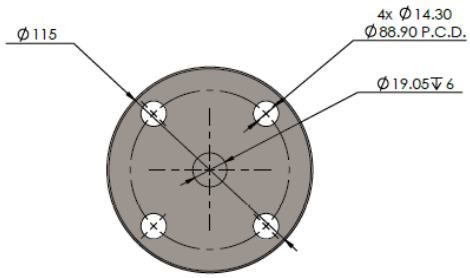
CFC Welded Cylinders

2.00” Bore Circular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFC200025AA112	2.00"	50.8		25	1.125"		3/4" UNO	$ 578.00
CFC200050AA112	2.00"	50.8		50	1.125"		3/4" UNO	$ 590.00
CFC200075AA112	2.00"	50.8		75	1.125"		3/4" UNO	$ 602.00
CFC200100AA112	2.00"	50.8		100	1.125"		3/4" UNO	$ 614.00
CFC200125AA112	2.00"	50.8		125	1.125"		3/4" UNO	$ 626.00
CFC200150AA112	2.00"	50.8		150	1.125"		3/4" UNO	$ 638.00
CFC200175AA112	2.00"	50.8		175	1.125"		3/4" UNO	$ 651.00
CFC200200AA112	2.00"	50.8		200	1.125"		3/4" UNO	$ 663.00
CFC200250AA112	2.00"	50.8		250	1.125"		3/4" UNO	$ 687.00
CFC200300AA112	2.00"	50.8		300	1.125"		3/4" UNO	$ 711.00
CFC200350AA112	2.00"	50.8		350	1.125"		3/4" UNO	$ 735.00
CFC200400AA112	2.00"	50.8		400	1.125"		3/4" UNO	$ 759.00
CFC200450AA112	2.00"	50.8		450	1.125"		3/4" UNO	$ 784.00
CFC200500AA112	2.00"	50.8		500	1.125"		3/4" UNO	$ 808.00
CFC200600AA112	2.00"	50.8		600	1.125"		3/4" UNO	$ 856.00
CFC200700AA112	2.00"	50.8		700	1.125"		3/4" UNO	$ 905.00
CFC200800AA112	2.00"	50.8		800	1.125"		3/4" UNO	$ 953.00
CFC200900AA112	2.00"	50.8		900	1.125"		3/4" UNO	$ 1001.00
CFC201000AA112	2.00"	50.8		1000	1.125"		3/4" UNO	$ 1050.00
ADD PER 25mm	2.00"	50.8		25	1.125"			$ 12.00



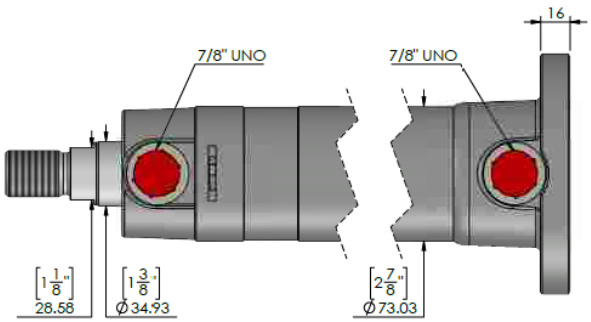


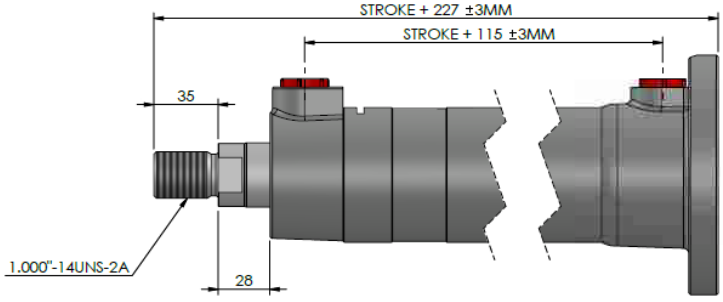


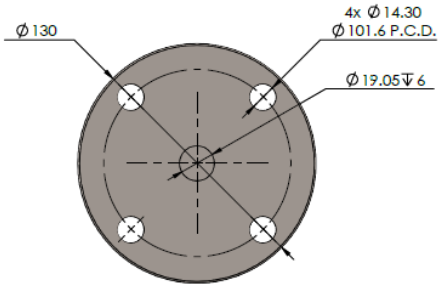
CFC Welded Cylinders

2.50” Bore Circular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFC250025AB137	2.50"	63.5		25	1.375"		7/8" UNO	$ 654.00
CFC250050AB137	2.50"	63.5		50	1.375"		7/8" UNO	$ 666.00
CFC250075AB137	2.50"	63.5		75	1.375"		7/8" UNO	$ 678.00
CFC250100AB137	2.50"	63.5		100	1.375"		7/8" UNO	$ 690.00
CFC250125AB137	2.50"	63.5		125	1.375"		7/8" UNO	$ 702.00
CFC250150AB137	2.50"	63.5		150	1.375"		7/8" UNO	$ 714.00
CFC250175AB137	2.50"	63.5		175	1.375"		7/8" UNO	$ 726.00
CFC250200AB137	2.50"	63.5		200	1.375"		7/8" UNO	$ 739.00
CFC250250AB137	2.50"	63.5		250	1.375"		7/8" UNO	$ 763.00
CFC250300AB137	2.50"	63.5		300	1.375"		7/8" UNO	$ 787.00
CFC250350AB137	2.50"	63.5		350	1.375"		7/8" UNO	$ 811.00
CFC250400AB137	2.50"	63.5		400	1.375"		7/8" UNO	$ 835.00
CFC250450AB137	2.50"	63.5		450	1.375"		7/8" UNO	$ 860.00
CFC250500AB137	2.50"	63.5		500	1.375"		7/8" UNO	$ 884.00
CFC250600AB137	2.50"	63.5		600	1.375"		7/8" UNO	$ 932.00
CFC250700AB137	2.50"	63.5		700	1.375"		7/8" UNO	$ 981.00
CFC250800AB137	2.50"	63.5		800	1.375"		7/8" UNO	$ 1029.00
CFC250900AB137	2.50"	63.5		900	1.375"		7/8" UNO	$ 1077.00
CFC251000AB137	2.50"	63.5		1000	1.375"		7/8" UNO	$ 1126.00
ADD PER 25mm	2.50"	63.5		25	1.375”			$ 12.00



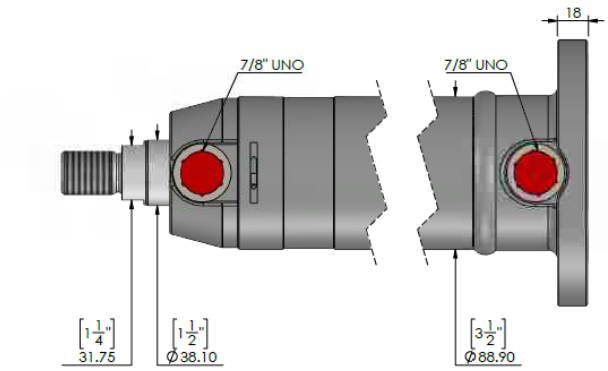


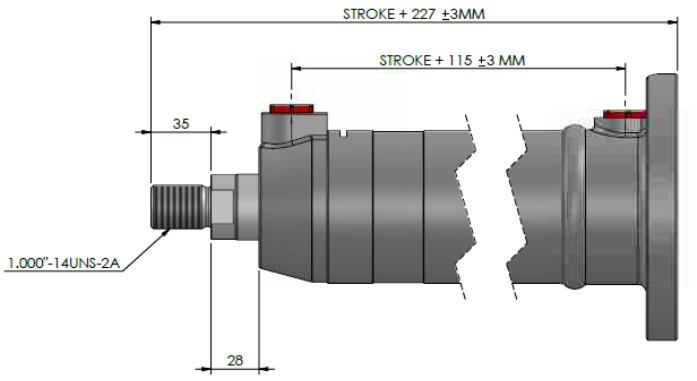


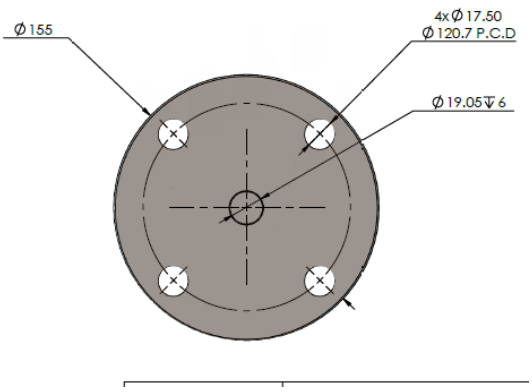
CFC Welded Cylinders

3.00” Bore Circular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFC300025AB150	3.00"	76.2		25	1.50"		7/8" UNO	$ 759.00
CFC300050AB150	3.00"	76.2		50	1.50"		7/8" UNO	$ 777.00
CFC300075AB150	3.00"	76.2		75	1.50"		7/8" UNO	$ 796.00
CFC300100AB150	3.00"	76.2		100	1.50"		7/8" UNO	$ 813.00
CFC300125AB150	3.00"	76.2		125	1.50"		7/8" UNO	$ 832.00
CFC300150AB150	3.00"	76.2		150	1.50"		7/8" UNO	$ 850.00
CFC300175AB150	3.00"	76.2		175	1.50"		7/8" UNO	$ 868.00
CFC300200AB150	3.00"	76.2		200	1.50"		7/8" UNO	$ 886.00
CFC300250AB150	3.00"	76.2		250	1.50"		7/8" UNO	$ 922.00
CFC300300AB150	3.00"	76.2		300	1.50"		7/8" UNO	$ 959.00
CFC300350AB150	3.00"	76.2		350	1.50"		7/8" UNO	$ 995.00
CFC300400AB150	3.00"	76.2		400	1.50"		7/8" UNO	$ 1031.00
CFC300450AB150	3.00"	76.2		450	1.50"		7/8" UNO	$ 1067.00
CFC300500AB150	3.00"	76.2		500	1.50"		7/8" UNO	$ 1104.00
CFC300600AB150	3.00"	76.2		600	1.50"		7/8" UNO	$ 1176.00
CFC300700AB150	3.00"	76.2		700	1.50"		7/8" UNO	$ 1249.00
CFC300800AB150	3.00"	76.2		800	1.50"		7/8" UNO	$ 1322.00
CFC300900AB150	3.00"	76.2		900	1.50"		7/8" UNO	$ 1394.00
CFC301000AB150	3.00"	76.2		1000	1.50"		7/8" UNO	$ 1467.00
ADD PER 25mm	3.00"	76.2		25	1.50"			$ 19.00



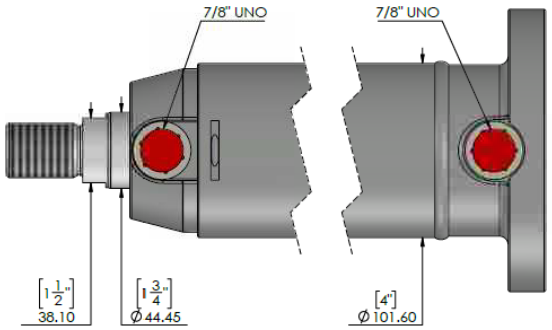


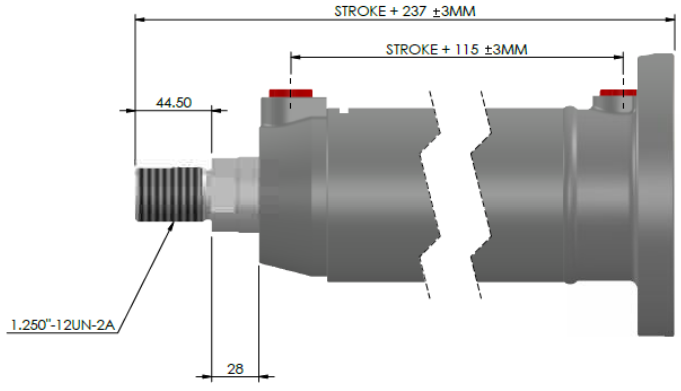


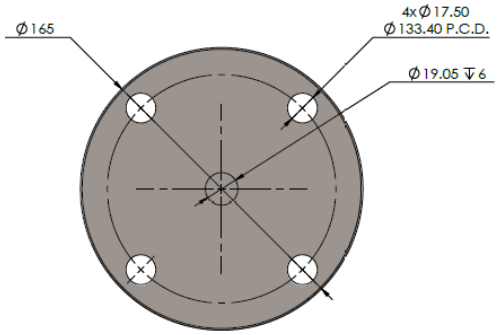
CFC Welded Cylinders

3.50” Bore Circular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFC350025AC175	3.50"	88.9		25	1.750"		7/8" UNO	$ 828.00
CFC350050AC175	3.50"	88.9		50	1.750"		7/8" UNO	$ 852.00
CFC350075AC175	3.50"	88.9		75	1.750"		7/8" UNO	$ 876.00
CFC350100AC175	3.50"	88.9		100	1.750"		7/8" UNO	$ 900.00
CFC350125AC175	3.50"	88.9		125	1.750"		7/8" UNO	$ 924.00
CFC350150AC175	3.50"	88.9		150	1.750"		7/8" UNO	$ 949.00
CFC350175AC175	3.50"	88.9		175	1.750"		7/8" UNO	$ 973.00
CFC350200AC175	3.50"	88.9		200	1.750"		7/8" UNO	$ 997.00
CFC350250AC175	3.50"	88.9		250	1.750"		7/8" UNO	$ 1045.00
CFC350300AC175	3.50"	88.9		300	1.750"		7/8" UNO	$ 1094.00
CFC350350AC175	3.50"	88.9		350	1.750"		7/8" UNO	$ 1142.00
CFC350400AC175	3.50"	88.9		400	1.750"		7/8" UNO	$ 1191.00
CFC350450AC175	3.50"	88.9		450	1.750"		7/8" UNO	$ 1239.00
CFC350500AC175	3.50"	88.9		500	1.750"		7/8" UNO	$ 1287.00
CFC350600AC175	3.50"	88.9		600	1.750"		7/8" UNO	$ 1384.00
CFC350700AC175	3.50"	88.9		700	1.750"		7/8" UNO	$ 1481.00
CFC350800AC175	3.50"	88.9		800	1.750"		7/8" UNO	$ 1578.00
CFC350900AC175	3.50"	88.9		900	1.750"		7/8" UNO	$ 1675.00
CFC351000AC175	3.50"	88.9		1000	1.750"		7/8" UNO	$ 1771.00
ADD PER 25mm	3.50"	88.9		25	1.750”			$ 24.00



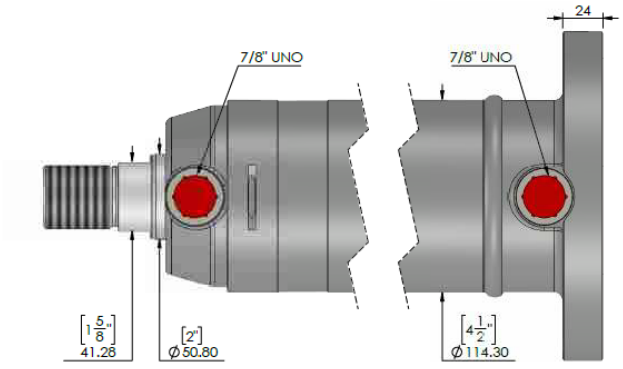


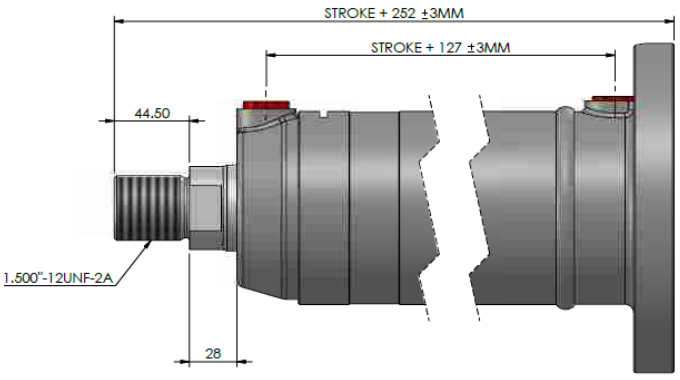


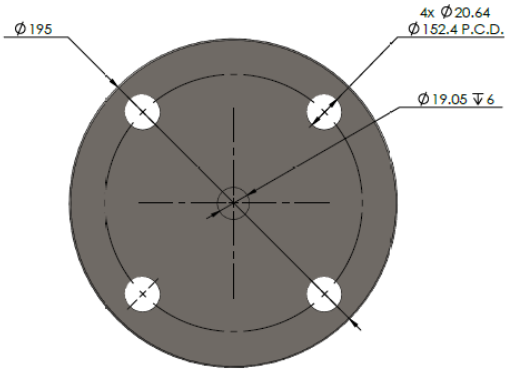
CFC Welded Cylinders

4.00” Bore Circular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFC400025AI200	4.00"	101.6		25	2.00"		7/8" UNO	$ 1027.00
CFC400050AI200	4.00"	101.6		50	2.00"		7/8" UNO	$ 1056.00
CFC400075AI200	4.00"	101.6		75	2.00"		7/8" UNO	$ 1087.00
CFC400100AI200	4.00"	101.6		100	2.00"		7/8" UNO	$ 1117.00
CFC400125AI200	4.00"	101.6		125	2.00"		7/8" UNO	$ 1148.00
CFC400150AI200	4.00"	101.6		150	2.00"		7/8" UNO	$ 1177.00
CFC400175AI200	4.00"	101.6		175	2.00"		7/8" UNO	$ 1208.00
CFC400200AI200	4.00"	101.6		200	2.00"		7/8" UNO	$ 1238.00
CFC400250AI200	4.00"	101.6		250	2.00"		7/8" UNO	$ 1298.00
CFC400300AI200	4.00"	101.6		300	2.00"		7/8" UNO	$ 1359.00
CFC400350AI200	4.00"	101.6		350	2.00"		7/8" UNO	$ 1419.00
CFC400400AI200	4.00"	101.6		400	2.00"		7/8" UNO	$ 1480.00
CFC400450AI200	4.00"	101.6		450	2.00"		7/8" UNO	$ 1540.00
CFC400500AI200	4.00"	101.6		500	2.00"		7/8" UNO	$ 1601.00
CFC400600AI200	4.00"	101.6		600	2.00"		7/8" UNO	$ 1722.00
CFC400700AI200	4.00"	101.6		700	2.00"		7/8" UNO	$ 1843.00
CFC400800AI200	4.00"	101.6		800	2.00"		7/8" UNO	$ 1964.00
CFC400900AI200	4.00"	101.6		900	2.00"		7/8" UNO	$ 2085.00
CFC401000AI200	4.00"	101.6		1000	2.00"		7/8" UNO	$ 2206.00
ADD PER 25mm	4.00"	101.6		25	2.00”			$ 31.00



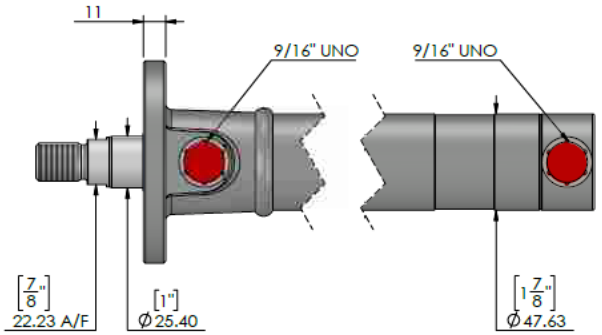


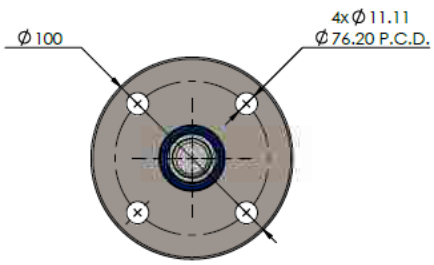


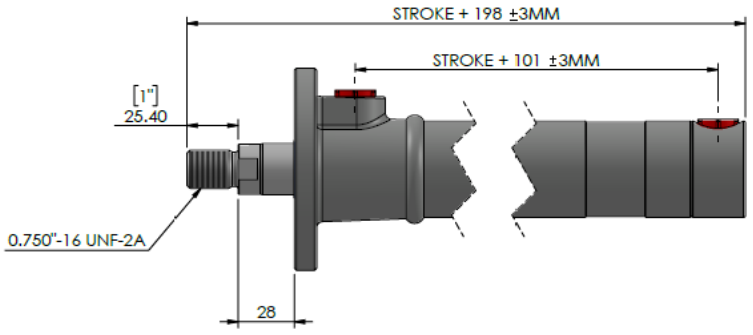
CFH Welded Cylinders

1.50” Bore Circular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFH150025AA100	1.50"	38.1		25	1.00"		9/16” UNO	$ 523.00
CFH150050AA100	1.50"	38.1		50	1.00"		9/16” UNO	$ 535.00
CFH150075AA100	1.50"	38.1		75	1.00"		9/16” UNO	$ 547.00
CFH150100AA100	1.50"	38.1		100	1.00"		9/16” UNO	$ 559.00
CFH150125AA100	1.50"	38.1		125	1.00"		9/16” UNO	$ 571.00
CFH150150AA100	1.50"	38.1		150	1.00"		9/16” UNO	$ 583.00
CFH150175AA100	1.50"	38.1		175	1.00"		9/16” UNO	$ 596.00
CFH150200AA100	1.50"	38.1		200	1.00"		9/16” UNO	$ 608.00
CFH150250AA100	1.50"	38.1		250	1.00"		9/16” UNO	$ 632.00
CFH150300AA100	1.50"	38.1		300	1.00"		9/16” UNO	$ 656.00
CFH150350AA100	1.50"	38.1		350	1.00"		9/16” UNO	$ 680.00
CFH150400AA100	1.50"	38.1		400	1.00"		9/16” UNO	$ 704.00
CFH150450AA100	1.50"	38.1		450	1.00"		9/16” UNO	$ 729.00
CFH150500AA100	1.50"	38.1		500	1.00"		9/16” UNO	$ 753.00
CFH150600AA100	1.50"	38.1		600	1.00"		9/16” UNO	$ 801.00
CFH150700AA100	1.50"	38.1		700	1.00"		9/16” UNO	$ 850.00
CFH150800AA100	1.50"	38.1		800	1.00"		9/16” UNO	$ 898.00
CFH150900AA100	1.50"	38.1		900	1.00"		9/16” UNO	$ 946.00
CFH151000AA100	1.50"	38.1		1000	1.00"		9/16” UNO	$ 995.00
ADD PER 25mm	1.50"	38.1		25	1.00”			$ 12.00



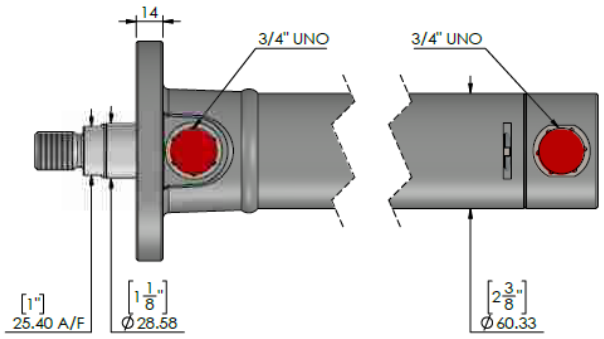


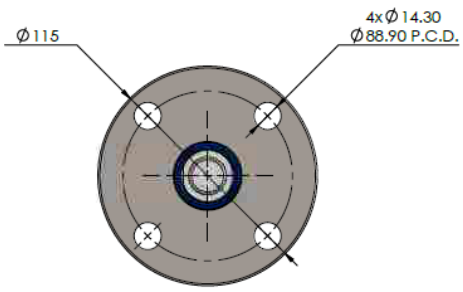


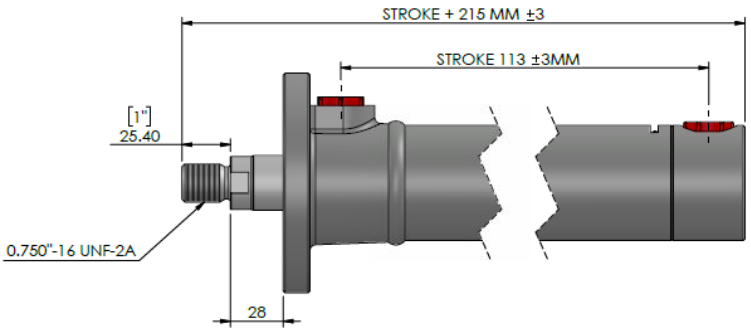
CFH Welded Cylinders

2.00” Bore Circular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFH200025AA112	2.00"	50.8		25	1.125"		3/4" UNO	$ 578.00
CFH200050AA112	2.00"	50.8		50	1.125"		3/4" UNO	$ 590.00
CFH200075AA112	2.00"	50.8		75	1.125"		3/4" UNO	$ 602.00
CFH200100AA112	2.00"	50.8		100	1.125"		3/4" UNO	$ 614.00
CFH200125AA112	2.00"	50.8		125	1.125"		3/4" UNO	$ 626.00
CFH200150AA112	2.00"	50.8		150	1.125"		3/4" UNO	$ 638.00
CFH200175AA112	2.00"	50.8		175	1.125"		3/4" UNO	$ 651.00
CFH200200AA112	2.00"	50.8		200	1.125"		3/4" UNO	$ 663.00
CFH200250AA112	2.00"	50.8		250	1.125"		3/4" UNO	$ 687.00
CFH200300AA112	2.00"	50.8		300	1.125"		3/4" UNO	$ 711.00
CFH200350AA112	2.00"	50.8		350	1.125"		3/4" UNO	$ 735.00
CFH200400AA112	2.00"	50.8		400	1.125"		3/4" UNO	$ 759.00
CFH200450AA112	2.00"	50.8		450	1.125"		3/4" UNO	$ 784.00
CFH200500AA112	2.00"	50.8		500	1.125"		3/4" UNO	$ 808.00
CFH200600AA112	2.00"	50.8		600	1.125"		3/4" UNO	$ 856.00
CFH200700AA112	2.00"	50.8		700	1.125"		3/4" UNO	$ 905.00
CFH200800AA112	2.00"	50.8		800	1.125"		3/4" UNO	$ 953.00
CFH200900AA112	2.00"	50.8		900	1.125"		3/4" UNO	$ 1001.00
CFH201000AA112	2.00"	50.8		1000	1.125"		3/4" UNO	$ 1050.00
ADD PER 25mm	2.00"	50.8		25	1.125”			$ 12.00



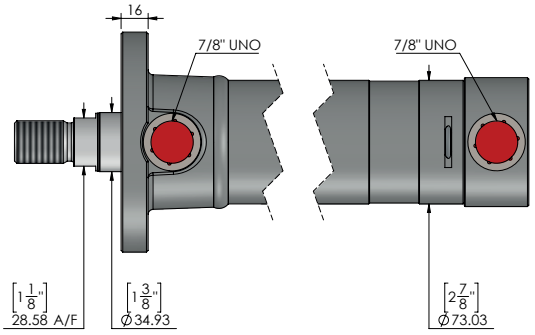


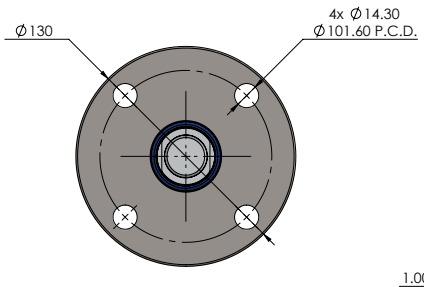


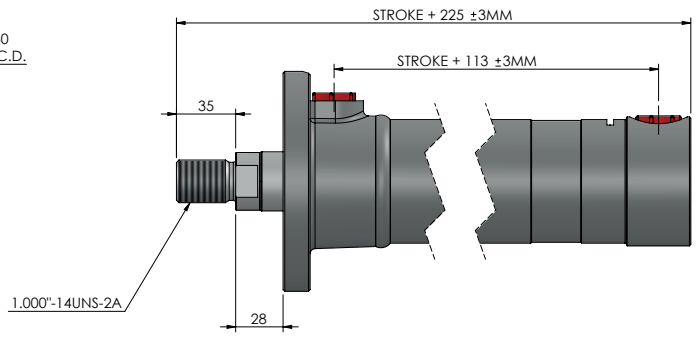
CFH Welded Cylinders

2.50” Bore Circular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFH250025AB137	2.50"	63.5		25	1.375"		7/8" UNO	$ 654.00
CFH250050AB137	2.50"	63.5		50	1.375"		7/8" UNO	$ 666.00
CFH250075AB137	2.50"	63.5		75	1.375"		7/8" UNO	$ 678.00
CFH250100AB137	2.50"	63.5		100	1.375"		7/8" UNO	$ 690.00
CFH250125AB137	2.50"	63.5		125	1.375"		7/8" UNO	$ 702.00
CFH250150AB137	2.50"	63.5		150	1.375"		7/8" UNO	$ 714.00
CFH250175AB137	2.50"	63.5		175	1.375"		7/8" UNO	$ 726.00
CFH250200AB137	2.50"	63.5		200	1.375"		7/8" UNO	$ 739.00
CFH250250AB137	2.50"	63.5		250	1.375"		7/8" UNO	$ 763.00
CFH250300AB137	2.50"	63.5		300	1.375"		7/8" UNO	$ 787.00
CFH250350AB137	2.50"	63.5		350	1.375"		7/8" UNO	$ 811.00
CFH250400AB137	2.50"	63.5		400	1.375"		7/8" UNO	$ 835.00
CFH250450AB137	2.50"	63.5		450	1.375"		7/8" UNO	$ 860.00
CFH250500AB137	2.50"	63.5		500	1.375"		7/8" UNO	$ 884.00
CFH250600AB137	2.50"	63.5		600	1.375"		7/8" UNO	$ 932.00
CFH250700AB137	2.50"	63.5		700	1.375"		7/8" UNO	$ 981.00
CFH250800AB137	2.50"	63.5		800	1.375"		7/8" UNO	$ 1029.00
CFH250900AB137	2.50"	63.5		900	1.375"		7/8" UNO	$ 1077.00
CFH251000AB137	2.50"	63.5		1000	1.375"		7/8" UNO	$ 1126.00
ADD PER 25mm	2.50"	63.5		25	1.375"			$ 12.00



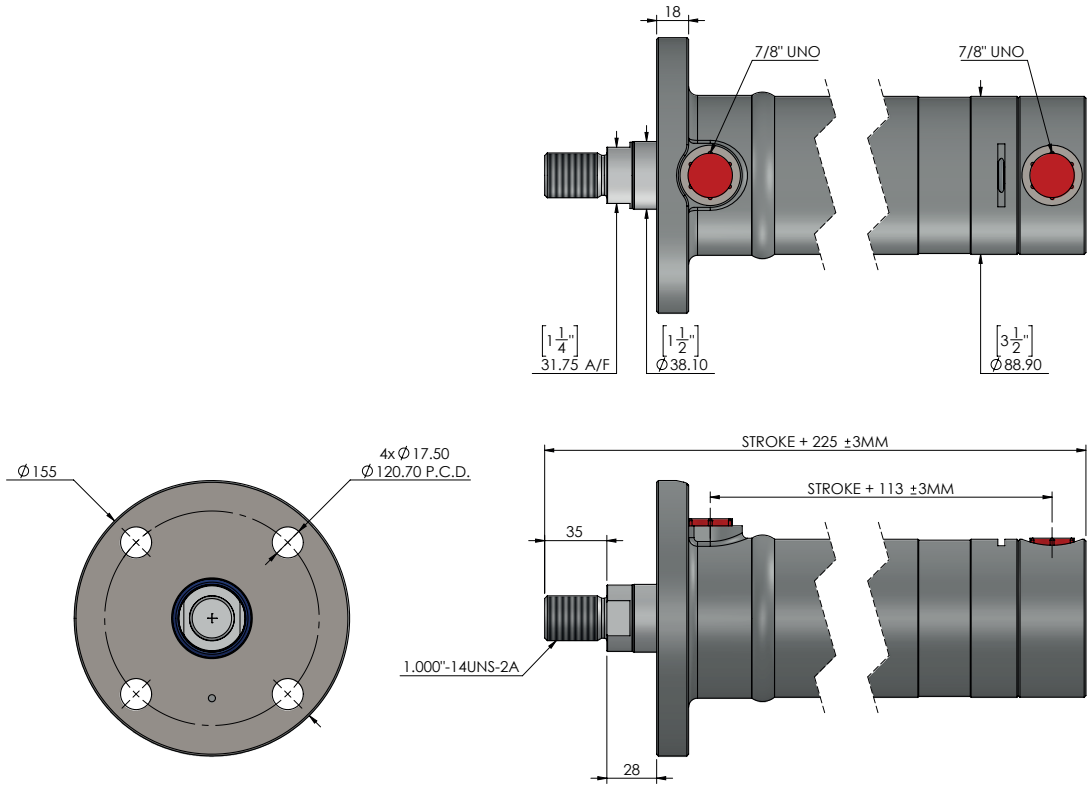




CFH Welded Cylinders

3.00” Bore Circular Flange Rod Cap Cylinders

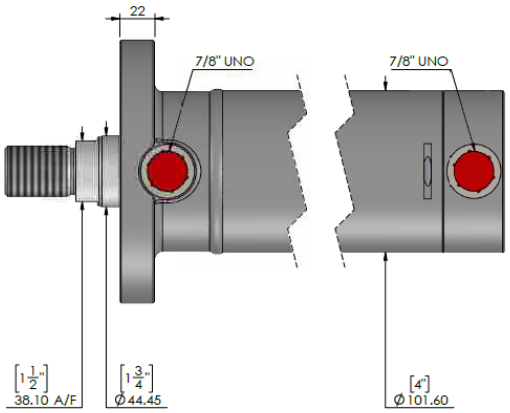
Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFH300025AB150	3.00"	76.2		25	1.50"		7/8" UNO	$ 759.00
CFH300050AB150	3.00"	76.2		50	1.50"		7/8" UNO	$ 777.00
CFH300075AB150	3.00"	76.2		75	1.50"		7/8" UNO	$ 796.00
CFH300100AB150	3.00"	76.2		100	1.50"		7/8" UNO	$ 813.00
CFH300125AB150	3.00"	76.2		125	1.50"		7/8" UNO	$ 832.00
CFH300150AB150	3.00"	76.2		150	1.50"		7/8" UNO	$ 850.00
CFH300175AB150	3.00"	76.2		175	1.50"		7/8" UNO	$ 868.00
CFH300200AB150	3.00"	76.2		200	1.50"		7/8" UNO	$ 886.00
CFH300250AB150	3.00"	76.2		250	1.50"		7/8" UNO	$ 922.00
CFH300300AB150	3.00"	76.2		300	1.50"		7/8" UNO	$ 959.00
CFH300350AB150	3.00"	76.2		350	1.50"		7/8" UNO	$ 995.00
CFH300400AB150	3.00"	76.2		400	1.50"		7/8" UNO	$ 1031.00
CFH300450AB150	3.00"	76.2		450	1.50"		7/8" UNO	$ 1067.00
CFH300500AB150	3.00"	76.2		500	1.50"		7/8" UNO	$ 1104.00
CFH300600AB150	3.00"	76.2		600	1.50"		7/8" UNO	$ 1176.00
CFH300700AB150	3.00"	76.2		700	1.50"		7/8" UNO	$ 1249.00
CFH300800AB150	3.00"	76.2		800	1.50"		7/8" UNO	$ 1322.00
CFH300900AB150	3.00"	76.2		900	1.50"		7/8" UNO	$ 1394.00
CFH301000AB150	3.00"	76.2		1000	1.50"		7/8" UNO	$ 1467.00
ADD PER 25mm	3.00"	76.2		25	1.50”			$ 19.00

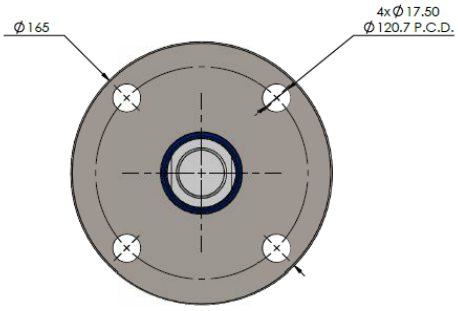


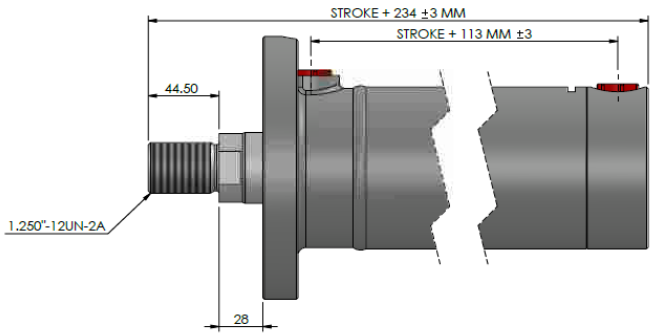
CFH Welded Cylinders

3.50” Bore Circular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFH350025AC175	3.50"	88.9		25	1.750"		7/8" UNO	$ 828.00
CFH350050AC175	3.50"	88.9		50	1.750"		7/8" UNO	$ 852.00
CFH350075AC175	3.50"	88.9		75	1.750"		7/8" UNO	$ 876.00
CFH350100AC175	3.50"	88.9		100	1.750"		7/8" UNO	$ 900.00
CFH350125AC175	3.50"	88.9		125	1.750"		7/8" UNO	$ 924.00
CFH350150AC175	3.50"	88.9		150	1.750"		7/8" UNO	$ 949.00
CFH350175AC175	3.50"	88.9		175	1.750"		7/8" UNO	$ 973.00
CFH350200AC175	3.50"	88.9		200	1.750"		7/8" UNO	$ 997.00
CFH350250AC175	3.50"	88.9		250	1.750"		7/8" UNO	$ 1045.00
CFH350300AC175	3.50"	88.9		300	1.750"		7/8" UNO	$ 1094.00
CFH350350AC175	3.50"	88.9		350	1.750"		7/8" UNO	$ 1142.00
CFH350400AC175	3.50"	88.9		400	1.750"		7/8" UNO	$ 1191.00
CFH350450AC175	3.50"	88.9		450	1.750"		7/8" UNO	$ 1239.00
CFH350500AC175	3.50"	88.9		500	1.750"		7/8" UNO	$ 1287.00
CFH350600AC175	3.50"	88.9		600	1.750"		7/8" UNO	$ 1384.00
CFH350700AC175	3.50"	88.9		700	1.750"		7/8" UNO	$ 1481.00
CFH350800AC175	3.50"	88.9		800	1.750"		7/8" UNO	$ 1578.00
CFH350900AC175	3.50"	88.9		900	1.750"		7/8" UNO	$ 1675.00
CFH351000AC175	3.50"	88.9		1000	1.750"		7/8" UNO	$ 1771.00
ADD PER 25mm	3.50"	88.9		25	1.750”			$ 24.00



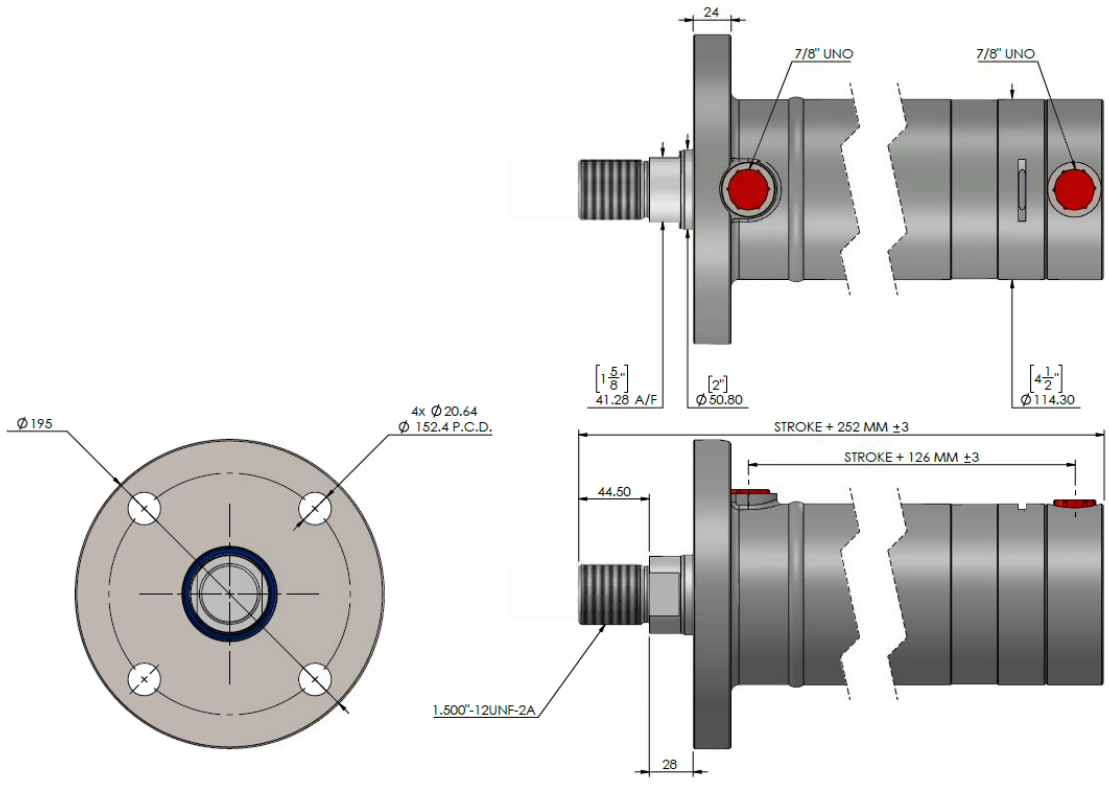




CFH Welded Cylinders

4.00” Bore Circular Flange Rod Cap Cylinders

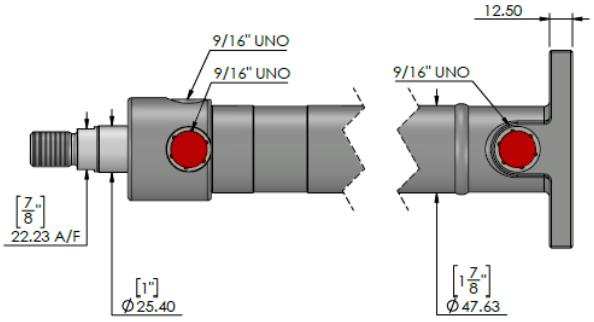
Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
CFH400025AI200	4.00"	101.6		25	2.00"		7/8" UNO	$ 1027.00
CFH400050AI200	4.00"	101.6		50	2.00"		7/8" UNO	$ 1056.00
CFH400075AI200	4.00"	101.6		75	2.00"		7/8" UNO	$ 1087.00
CFH400100AI200	4.00"	101.6		100	2.00"		7/8" UNO	$ 1117.00
CFH400125AI200	4.00"	101.6		125	2.00"		7/8" UNO	$ 1148.00
CFH400150AI200	4.00"	101.6		150	2.00"		7/8" UNO	$ 1177.00
CFH400175AI200	4.00"	101.6		175	2.00"		7/8" UNO	$ 1208.00
CFH400200AI200	4.00"	101.6		200	2.00"		7/8" UNO	$ 1238.00
CFH400250AI200	4.00"	101.6		250	2.00"		7/8" UNO	$ 1298.00
CFH400300AI200	4.00"	101.6		300	2.00"		7/8" UNO	$ 1359.00
CFH400350AI200	4.00"	101.6		350	2.00"		7/8" UNO	$ 1540.00
CFH400400AI200	4.00"	101.6		400	2.00"		7/8" UNO	$ 1601.00
CFH400450AI200	4.00"	101.6		450	2.00"		7/8" UNO	$ 1644.00
CFH400500AI200	4.00"	101.6		500	2.00"		7/8" UNO	$ 1601.00
CFH400600AI200	4.00"	101.6		600	2.00"		7/8" UNO	$ 1722.00
CFH400700AI200	4.00"	101.6		700	2.00"		7/8" UNO	$ 1843.00
CFH400800AI200	4.00"	101.6		800	2.00"		7/8" UNO	$ 1964.00
CFH400900AI200	4.00"	101.6		900	2.00"		7/8" UNO	$ 2085.00
CFH401000AI200	4.00"	101.6		1000	2.00"		7/8" UNO	$ 2206.00
ADD PER 25mm	4.00"	101.6		25	2.00”			$ 31.00

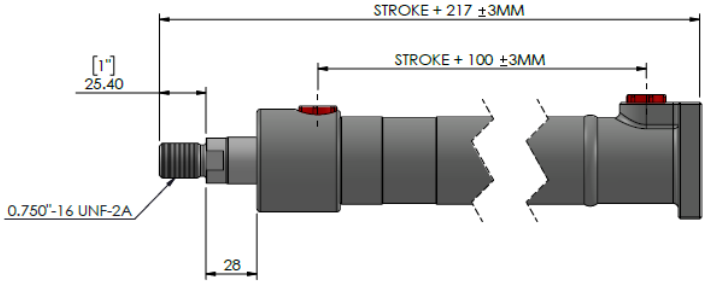


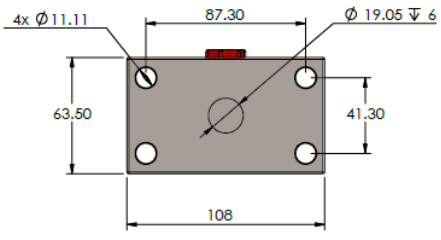
RFC Welded Cylinders

1.50” Bore Rectangular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFC150025AA100	1.50"	38.1		25	1.00"		9/16” UNO	$ 541.00
RFC150050AA100	1.50"	38.1		50	1.00"		9/16” UNO	$ 553.00
RFC150075AA100	1.50"	38.1		75	1.00"		9/16” UNO	$ 565.00
RFC150100AA100	1.50"	38.1		100	1.00"		9/16” UNO	$ 577.00
RFC150125AA100	1.50"	38.1		125	1.00"		9/16” UNO	$ 589.00
RFC150150AA100	1.50"	38.1		150	1.00"		9/16” UNO	$ 601.00
RFC150175AA100	1.50"	38.1		175	1.00"		9/16” UNO	$ 613.00
RFC150200AA100	1.50"	38.1		200	1.00"		9/16” UNO	$ 625.00
RFC150250AA100	1.50"	38.1		250	1.00"		9/16” UNO	$ 649.00
RFC150300AA100	1.50"	38.1		300	1.00"		9/16” UNO	$ 674.00
RFC150350AA100	1.50"	38.1		350	1.00"		9/16” UNO	$ 698.00
RFC150400AA100	1.50"	38.1		400	1.00"		9/16” UNO	$ 722.00
RFC150450AA100	1.50"	38.1		450	1.00"		9/16” UNO	$ 746.00
RFC150500AA100	1.50"	38.1		500	1.00"		9/16” UNO	$ 770.00
RFC150600AA100	1.50"	38.1		600	1.00"		9/16” UNO	$ 819.00
RFC150700AA100	1.50"	38.1		700	1.00"		9/16” UNO	$ 867.00
RFC150800AA100	1.50"	38.1		800	1.00"		9/16” UNO	$ 916.00
RFC150900AA100	1.50"	38.1		900	1.00"		9/16” UNO	$ 964.00
RFC151000AA100	1.50"	38.1		1000	1.00"		9/16” UNO	$ 1012.00
ADD PER 25mm	1.50"	38.1		25	1.00”			$ 12.00



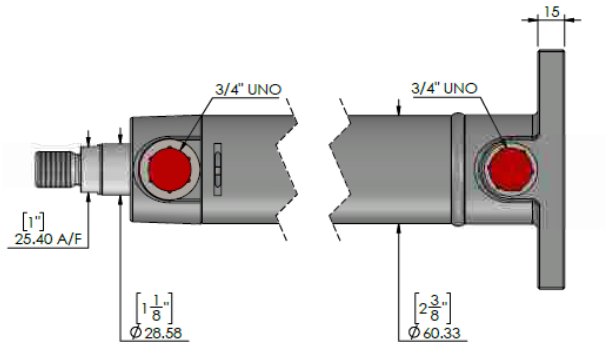


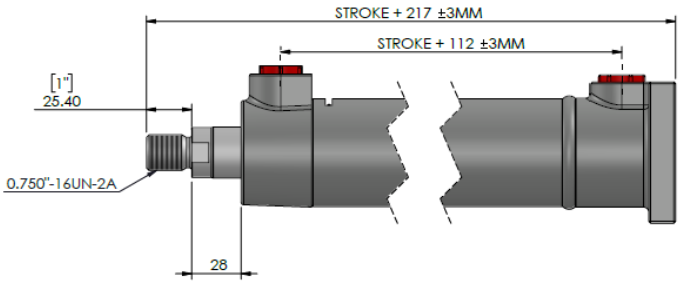


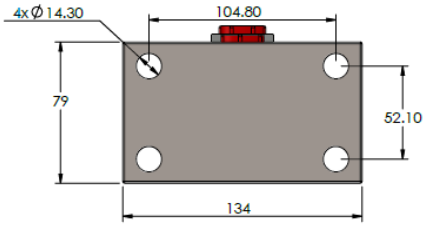
RFC Welded Cylinders

2.00” Bore Rectangular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFC200025AA112	2.00"	50.8		25	1.125"		3/4" UNO	$ 598.00
RFC200050AA112	2.00"	50.8		50	1.125"		3/4" UNO	$ 610.00
RFC200075AA112	2.00"	50.8		75	1.125"		3/4" UNO	$ 622.00
RFC200100AA112	2.00"	50.8		100	1.125"		3/4" UNO	$ 634.00
RFC200125AA112	2.00"	50.8		125	1.125"		3/4" UNO	$ 646.00
RFC200150AA112	2.00"	50.8		150	1.125"		3/4" UNO	$ 658.00
RFC200175AA112	2.00"	50.8		175	1.125"		3/4" UNO	$ 670.00
RFC200200AA112	2.00"	50.8		200	1.125"		3/4" UNO	$ 682.00
RFC200250AA112	2.00"	50.8		250	1.125"		3/4" UNO	$ 707.00
RFC200300AA112	2.00"	50.8		300	1.125"		3/4" UNO	$ 731.00
RFC200350AA112	2.00"	50.8		350	1.125"		3/4" UNO	$ 755.00
RFC200400AA112	2.00"	50.8		400	1.125"		3/4" UNO	$ 779.00
RFC200450AA112	2.00"	50.8		450	1.125"		3/4" UNO	$ 803.00
RFC200500AA112	2.00"	50.8		500	1.125"		3/4" UNO	$ 828.00
RFC200600AA112	2.00"	50.8		600	1.125"		3/4" UNO	$ 876.00
RFC200700AA112	2.00"	50.8		700	1.125"		3/4" UNO	$ 924.00
RFC200800AA112	2.00"	50.8		800	1.125"		3/4" UNO	$ 973.00
RFC200900AA112	2.00"	50.8		900	1.125"		3/4" UNO	$ 1021.00
RFC201000AA112	2.00"	50.8		1000	1.125"		3/4" UNO	$ 1070.00
ADD PER 25mm	2.00"	50.8		25	1.125"			$ 12.00



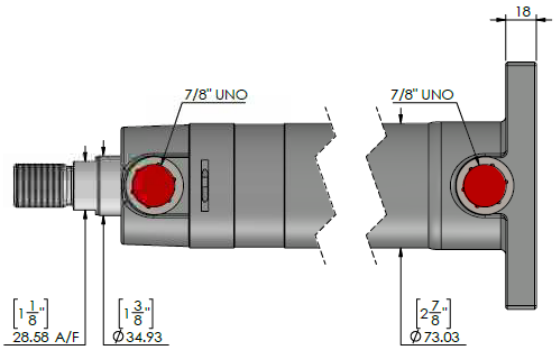


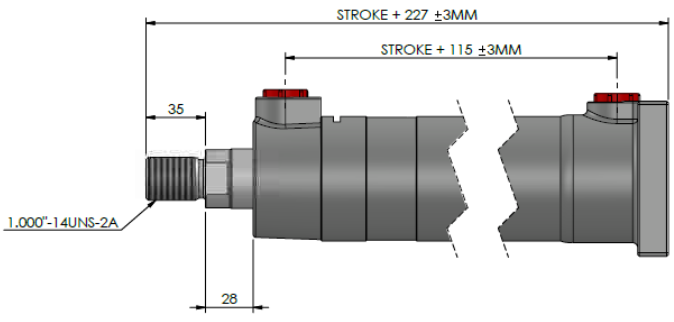


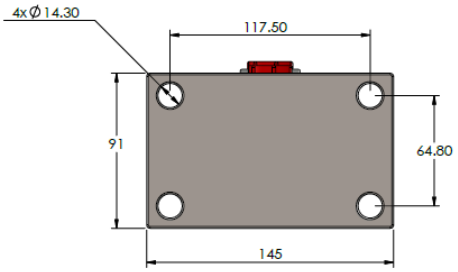
RFC Welded Cylinders

2.50” Bore Rectangular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFC250025AB137	2.50"	63.5		25	1.375"		7/8" UNO	$ 678.00
RFC250050AB137	2.50"	63.5		50	1.375"		7/8" UNO	$ 690.00
RFC250075AB137	2.50"	63.5		75	1.375"		7/8" UNO	$ 702.00
RFC250100AB137	2.50"	63.5		100	1.375"		7/8" UNO	$ 714.00
RFC250125AB137	2.50"	63.5		125	1.375"		7/8" UNO	$ 726.00
RFC250150AB137	2.50"	63.5		150	1.375"		7/8" UNO	$ 739.00
RFC250175AB137	2.50"	63.5		175	1.375"		7/8" UNO	$ 751.00
RFC250200AB137	2.50"	63.5		200	1.375"		7/8" UNO	$ 763.00
RFC250250AB137	2.50"	63.5		250	1.375"		7/8" UNO	$ 787.00
RFC250300AB137	2.50"	63.5		300	1.375"		7/8" UNO	$ 811.00
RFC250350AB137	2.50"	63.5		350	1.375"		7/8" UNO	$ 835.00
RFC250400AB137	2.50"	63.5		400	1.375"		7/8" UNO	$ 860.00
RFC250450AB137	2.50"	63.5		450	1.375"		7/8" UNO	$ 884.00
RFC250500AB137	2.50"	63.5		500	1.375"		7/8" UNO	$ 908.00
RFC250600AB137	2.50"	63.5		600	1.375"		7/8" UNO	$ 956.00
RFC250700AB137	2.50"	63.5		700	1.375"		7/8" UNO	$ 1005.00
RFC250800AB137	2.50"	63.5		800	1.375"		7/8" UNO	$ 1053.00
RFC250900AB137	2.50"	63.5		900	1.375"		7/8" UNO	$ 1102.00
RFC251000AB137	2.50"	63.5		1000	1.375"		7/8" UNO	$ 1150.00
ADD PER 25mm	2.50"	63.5		25	1.37”			$ 12.00



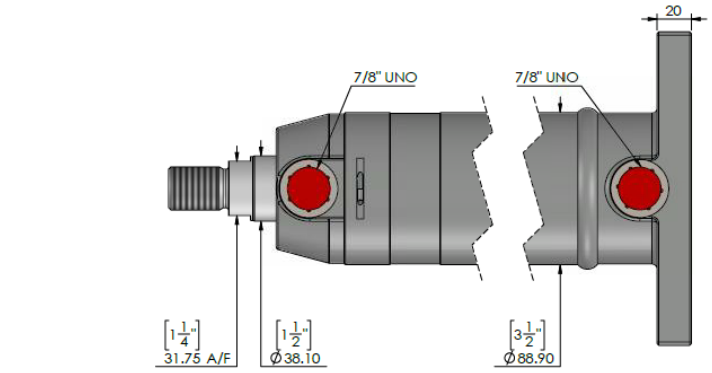


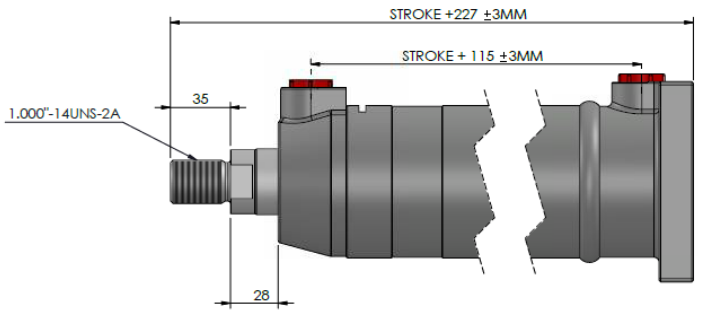


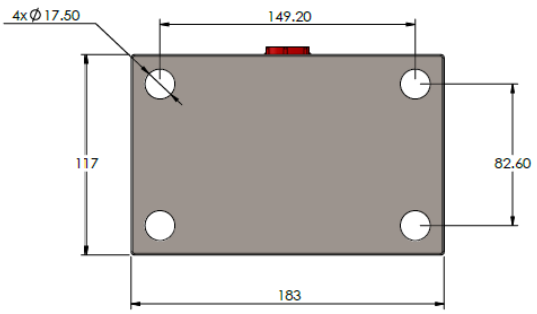
RFC Welded Cylinders

3.00” Bore Rectangular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFC300025AB150	3.00"	76.2		25	1.50"		7/8" UNO	$ 757.00
RFC300050AB150	3.00"	76.2		50	1.50"		7/8" UNO	$ 775.00
RFC300075AB150	3.00"	76.2		75	1.50"		7/8" UNO	$ 794.00
RFC300100AB150	3.00"	76.2		100	1.50"		7/8" UNO	$ 811.00
RFC300125AB150	3.00"	76.2		125	1.50"		7/8" UNO	$ 830.00
RFC300150AB150	3.00"	76.2		150	1.50"		7/8" UNO	$ 847.00
RFC300175AB150	3.00"	76.2		175	1.50"		7/8" UNO	$ 866.00
RFC300200AB150	3.00"	76.2		200	1.50"		7/8" UNO	$ 884.00
RFC300250AB150	3.00"	76.2		250	1.50"		7/8" UNO	$ 920.00
RFC300300AB150	3.00"	76.2		300	1.50"		7/8" UNO	$ 956.00
RFC300350AB150	3.00"	76.2		350	1.50"		7/8" UNO	$ 993.00
RFC300400AB150	3.00"	76.2		400	1.50"		7/8" UNO	$ 1029.00
RFC300450AB150	3.00"	76.2		450	1.50"		7/8" UNO	$ 1065.00
RFC300500AB150	3.00"	76.2		500	1.50"		7/8" UNO	$ 1102.00
RFC300600AB150	3.00"	76.2		600	1.50"		7/8" UNO	$ 1174.00
RFC300700AB150	3.00"	76.2		700	1.50"		7/8" UNO	$ 1247.00
RFC300800AB150	3.00"	76.2		800	1.50"		7/8" UNO	$ 1319.00
RFC300900AB150	3.00"	76.2		900	1.50"		7/8" UNO	$ 1392.00
RFC301000AB150	3.00"	76.2		1000	1.50"		7/8" UNO	$ 1465.00
ADD PER 25mm	3.00"	76.2		25	1.50”			$ 19.00



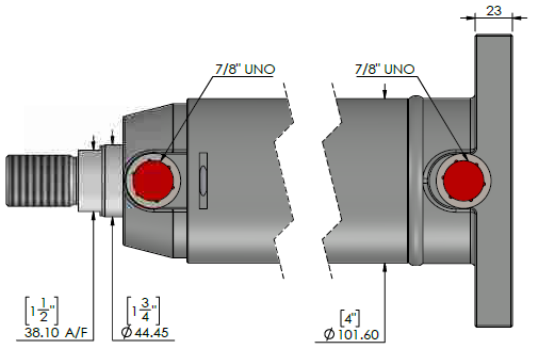


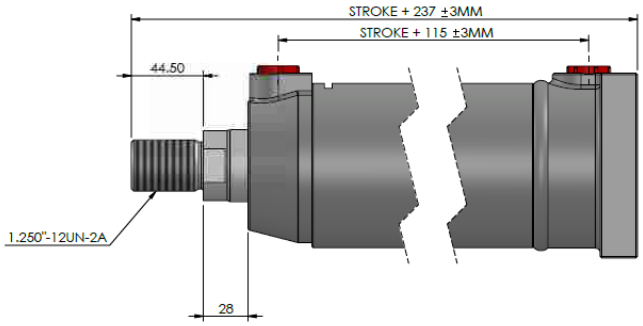


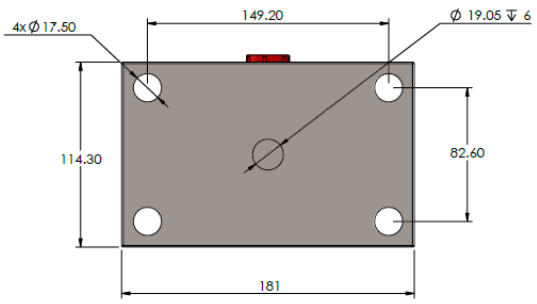
RFC Welded Cylinders

3.50” Bore Rectangular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFC350025AC175	3.50"	88.9		25	1.750"		7/8" UNO	$ 866.00
RFC350050AC175	3.50"	88.9		50	1.750"		7/8" UNO	$ 890.00
RFC350075AC175	3.50"	88.9		75	1.750"		7/8" UNO	$ 915.00
RFC350100AC175	3.50"	88.9		100	1.750"		7/8" UNO	$ 939.00
RFC350125AC175	3.50"	88.9		125	1.750"		7/8" UNO	$ 963.00
RFC350150AC175	3.50"	88.9		150	1.750"		7/8" UNO	$ 987.00
RFC350175AC175	3.50"	88.9		175	1.750"		7/8" UNO	$ 1011.00
RFC350200AC175	3.50"	88.9		200	1.750"		7/8" UNO	$ 1036.00
RFC350250AC175	3.50"	88.9		250	1.750"		7/8" UNO	$ 1084.00
RFC350300AC175	3.50"	88.9		300	1.750"		7/8" UNO	$ 1132.00
RFC350350AC175	3.50"	88.9		350	1.750"		7/8" UNO	$ 1181.00
RFC350400AC175	3.50"	88.9		400	1.750"		7/8" UNO	$ 1229.00
RFC350450AC175	3.50"	88.9		450	1.750"		7/8" UNO	$ 1278.00
RFC350500AC175	3.50"	88.9		500	1.750"		7/8" UNO	$ 1326.00
RFC350600AC175	3.50"	88.9		600	1.750"		7/8" UNO	$ 1423.00
RFC350700AC175	3.50"	88.9		700	1.750"		7/8" UNO	$ 1520.00
RFC350800AC175	3.50"	88.9		800	1.750"		7/8" UNO	$ 1616.00
RFC350900AC175	3.50"	88.9		900	1.750"		7/8" UNO	$ 1713.00
RFC351000AC175	3.50"	88.9		1000	1.750"		7/8" UNO	$ 1810.00
ADD PER 25mm	3.50"	88.9		25	1.750”			$ 24.00



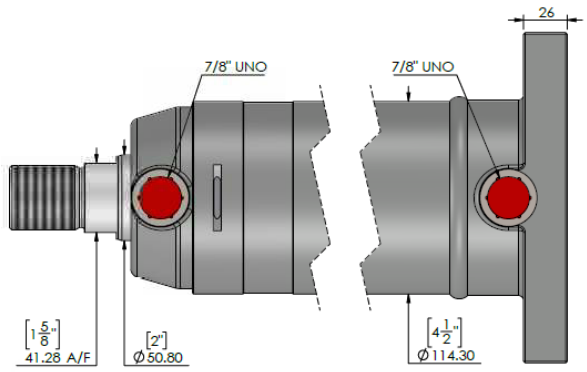


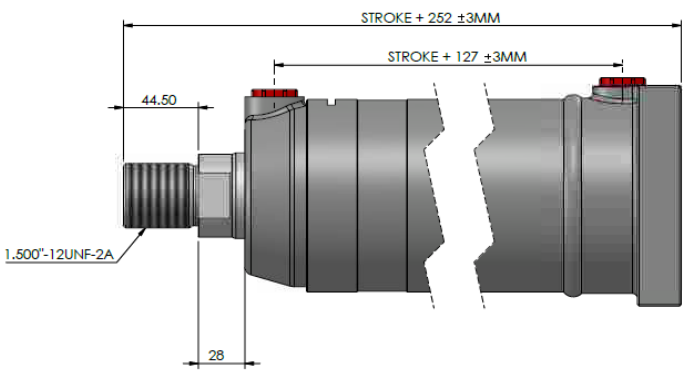


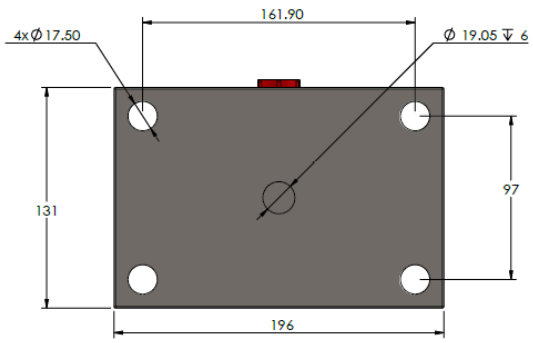
RFC Welded Cylinders

4.00” Bore Rectangular Flange Head Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFC400025AI200	4.00"	101.6		25	2.00"		7/8" UNO	$ 1076.00
RFC400050AI200	4.00"	101.6		50	2.00"		7/8" UNO	$ 1106.00
RFC400075AI200	4.00"	101.6		75	2.00"		7/8" UNO	$ 1137.00
RFC400100AI200	4.00"	101.6		100	2.00"		7/8" UNO	$ 1166.00
RFC400125AI200	4.00"	101.6		125	2.00"		7/8" UNO	$ 1197.00
RFC400150AI200	4.00"	101.6		150	2.00"		7/8" UNO	$ 1227.00
RFC400175AI200	4.00"	101.6		175	2.00"		7/8" UNO	$ 1258.00
RFC400200AI200	4.00"	101.6		200	2.00"		7/8" UNO	$ 1287.00
RFC400250AI200	4.00"	101.6		250	2.00"		7/8" UNO	$ 1348.00
RFC400300AI200	4.00"	101.6		300	2.00"		7/8" UNO	$ 1408.00
RFC400350AI200	4.00"	101.6		350	2.00"		7/8" UNO	$ 1469.00
RFC400400AI200	4.00"	101.6		400	2.00"		7/8" UNO	$ 1529.00
RFC400450AI200	4.00"	101.6		450	2.00"		7/8" UNO	$ 1590.00
RFC400500AI200	4.00"	101.6		500	2.00"		7/8" UNO	$ 1650.00
RFC400600AI200	4.00"	101.6		600	2.00"		7/8" UNO	$ 1771.00
RFC400700AI200	4.00"	101.6		700	2.00"		7/8" UNO	$ 1892.00
RFC400800AI200	4.00"	101.6		800	2.00"		7/8" UNO	$ 2013.00
RFC400900AI200	4.00"	101.6		900	2.00"		7/8" UNO	$ 2134.00
RFC401000AI200	4.00"	101.6		1000	2.00"		7/8" UNO	$ 2255.00
ADD PER 25mm	4.00"	101.6		25	2.00”			$ 31.00



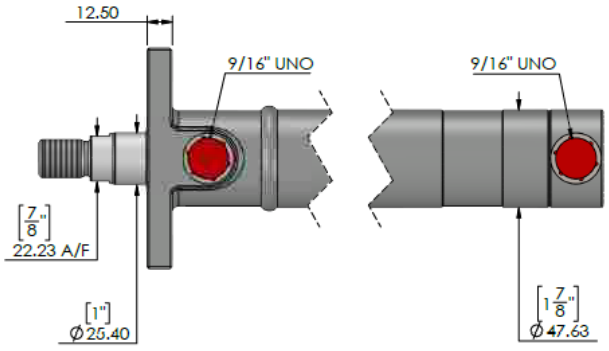


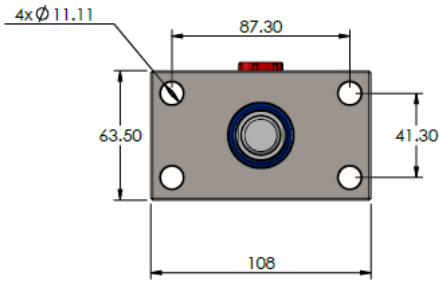


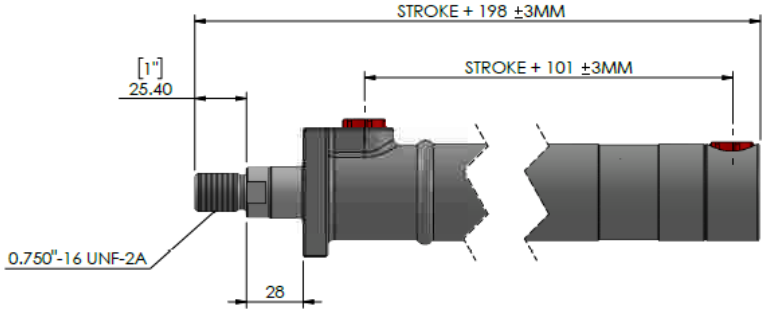
RFH Welded Cylinders

1.50” Bore Rectangular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFH150025AA100	1.50"	38.1		25	1.00"		9/16” UNO	$ 541.00
RFH150050AA100	1.50"	38.1		50	1.00"		9/16” UNO	$ 553.00
RFH150075AA100	1.50"	38.1		75	1.00"		9/16” UNO	$ 565.00
RFH150100AA100	1.50"	38.1		100	1.00"		9/16” UNO	$ 577.00
RFH150125AA100	1.50"	38.1		125	1.00"		9/16” UNO	$ 589.00
RFH150150AA100	1.50"	38.1		150	1.00"		9/16” UNO	$ 601.00
RFH150175AA100	1.50"	38.1		175	1.00"		9/16” UNO	$ 613.00
RFH150200AA100	1.50"	38.1		200	1.00"		9/16” UNO	$ 625.00
RFH150250AA100	1.50"	38.1		250	1.00"		9/16” UNO	$ 649.00
RFH150300AA100	1.50"	38.1		300	1.00"		9/16” UNO	$ 674.00
RFH150350AA100	1.50"	38.1		350	1.00"		9/16” UNO	$ 698.00
RFH150400AA100	1.50"	38.1		400	1.00"		9/16” UNO	$ 722.00
RFH150450AA100	1.50"	38.1		450	1.00"		9/16” UNO	$ 746.00
RFH150500AA100	1.50"	38.1		500	1.00"		9/16” UNO	$ 770.00
RFH150600AA100	1.50"	38.1		600	1.00"		9/16” UNO	$ 819.00
RFH150700AA100	1.50"	38.1		700	1.00"		9/16” UNO	$ 867.00
RFH150800AA100	1.50"	38.1		800	1.00"		9/16” UNO	$ 916.00
RFH150900AA100	1.50"	38.1		900	1.00"		9/16” UNO	$ 964.00
RFH151000AA100	1.50"	38.1		1000	1.00"		9/16” UNO	$ 1012.00
ADD PER 25mm	1.50"	38.1		25	1.00”			$ 12.00



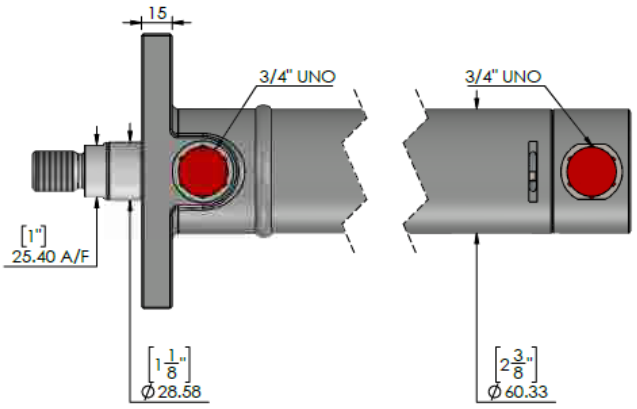


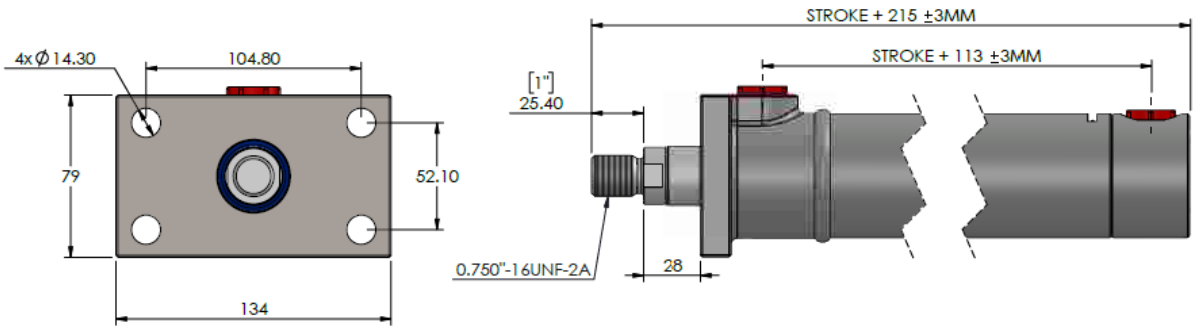


RFH Welded Cylinders

2.00” Bore Rectangular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFH200025AA112	2.00"	50.8		25	1.125"		3/4" UNO	$ 598.00
RFH200050AA112	2.00"	50.8		50	1.125"		3/4" UNO	$ 610.00
RFH200075AA112	2.00"	50.8		75	1.125"		3/4" UNO	$ 622.00
RFH200100AA112	2.00"	50.8		100	1.125"		3/4" UNO	$ 634.00
RFH200125AA112	2.00"	50.8		125	1.125"		3/4" UNO	$ 646.00
RFH200150AA112	2.00"	50.8		150	1.125"		3/4" UNO	$ 658.00
RFH200175AA112	2.00"	50.8		175	1.125"		3/4" UNO	$ 670.00
RFH200200AA112	2.00"	50.8		200	1.125"		3/4" UNO	$ 682.00
RFH200250AA112	2.00"	50.8		250	1.125"		3/4" UNO	$ 707.00
RFH200300AA112	2.00"	50.8		300	1.125"		3/4" UNO	$ 731.00
RFH200350AA112	2.00"	50.8		350	1.125"		3/4" UNO	$ 755.00
RFH200400AA112	2.00"	50.8		400	1.125"		3/4" UNO	$ 779.00
RFH200450AA112	2.00"	50.8		450	1.125"		3/4" UNO	$ 803.00
RFH200500AA112	2.00"	50.8		500	1.125"		3/4" UNO	$ 828.00
RFH200600AA112	2.00"	50.8		600	1.125"		3/4" UNO	$ 876.00
RFH200700AA112	2.00"	50.8		700	1.125"		3/4" UNO	$ 924.00
RFH200800AA112	2.00"	50.8		800	1.125"		3/4" UNO	$ 973.00
RFH200900AA112	2.00"	50.8		900	1.125"		3/4" UNO	$ 1021.00
RFH201000AA112	2.00"	50.8		1000	1.125"		3/4" UNO	$ 1070.00
ADD PER 25mm	2.00"	50.8		25	1.125"			$ 12.00

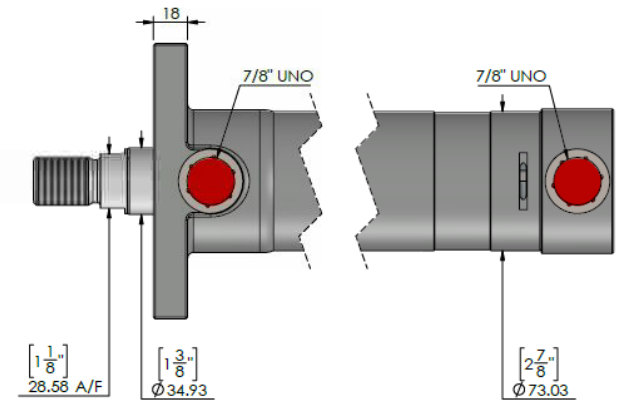


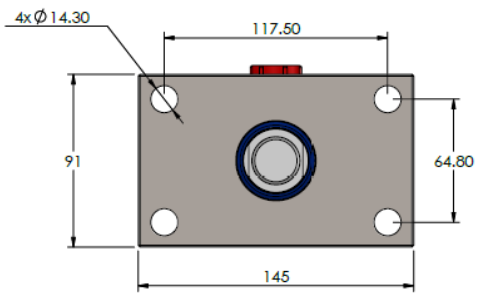


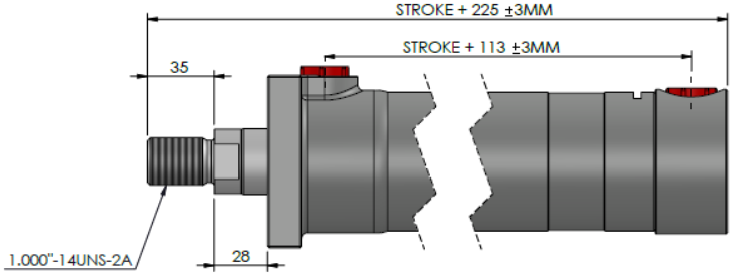
RFH Welded Cylinders

2.50” Bore Rectangular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFH250025AB137	2.50"	63.5		25	1.375"		7/8" UNO	$ 678.00
RFH250050AB137	2.50"	63.5		50	1.375"		7/8" UNO	$ 690.00
RFH250075AB137	2.50"	63.5		75	1.375"		7/8" UNO	$ 702.00
RFH250100AB137	2.50"	63.5		100	1.375"		7/8" UNO	$ 714.00
RFH250125AB137	2.50"	63.5		125	1.375"		7/8" UNO	$ 726.00
RFH250150AB137	2.50"	63.5		150	1.375"		7/8" UNO	$ 739.00
RFH250175AB137	2.50"	63.5		175	1.375"		7/8" UNO	$ 751.00
RFH250200AB137	2.50"	63.5		200	1.375"		7/8" UNO	$ 763.00
RFH250250AB137	2.50"	63.5		250	1.375"		7/8" UNO	$ 787.00
RFH250300AB137	2.50"	63.5		300	1.375"		7/8" UNO	$ 811.00
RFH250350AB137	2.50"	63.5		350	1.375"		7/8" UNO	$ 835.00
RFH250400AB137	2.50"	63.5		400	1.375"		7/8" UNO	$ 860.00
RFH250450AB137	2.50"	63.5		450	1.375"		7/8" UNO	$ 884.00
RFH250500AB137	2.50"	63.5		500	1.375"		7/8" UNO	$ 908.00
RFH250600AB137	2.50"	63.5		600	1.375"		7/8" UNO	$ 956.00
RFH250700AB137	2.50"	63.5		700	1.375"		7/8" UNO	$ 1005.00
RFH250800AB137	2.50"	63.5		800	1.375"		7/8" UNO	$ 1053.00
RFH250900AB137	2.50"	63.5		900	1.375"		7/8" UNO	$ 1102.00
RFH251000AB137	2.50"	63.5		1000	1.375"		7/8" UNO	$ 1150.00
ADD PER 25mm	2.50"	63.5		25	1.375"			$ 12.00



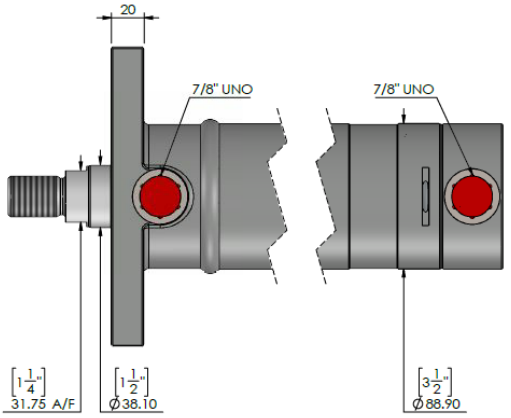


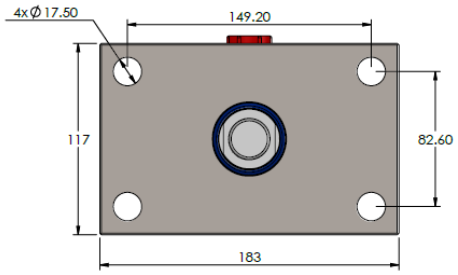


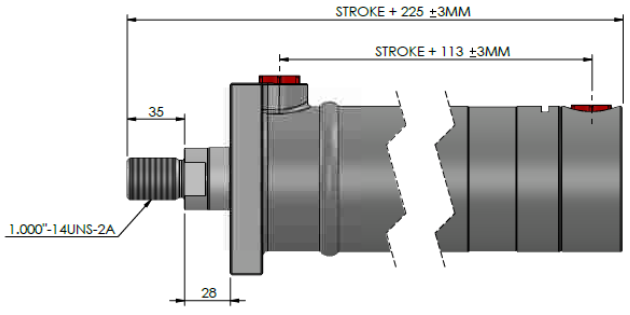
RFH Welded Cylinders

3.00” Bore Rectangular Flange Rod Cap Cylinders

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFH300025AB150	3.00"	76.2		25	1.50"		7/8" UNO	$ 757.00
RFH300050AB150	3.00"	76.2		50	1.50"		7/8" UNO	$ 775.00
RFH300075AB150	3.00"	76.2		75	1.50"		7/8" UNO	$ 794.00
RFH300100AB150	3.00"	76.2		100	1.50"		7/8" UNO	$ 811.00
RFH300125AB150	3.00"	76.2		125	1.50"		7/8" UNO	$ 830.00
RFH300150AB150	3.00"	76.2		150	1.50"		7/8" UNO	$ 847.00
RFH300175AB150	3.00"	76.2		175	1.50"		7/8" UNO	$ 866.00
RFH300200AB150	3.00"	76.2		200	1.50"		7/8" UNO	$ 884.00
RFH300250AB150	3.00"	76.2		250	1.50"		7/8" UNO	$ 920.00
RFH300300AB150	3.00"	76.2		300	1.50"		7/8" UNO	$ 956.00
RFH300350AB150	3.00"	76.2		350	1.50"		7/8" UNO	$ 993.00
RFH300400AB150	3.00"	76.2		400	1.50"		7/8" UNO	$ 1029.00
RFH300450AB150	3.00"	76.2		450	1.50"		7/8" UNO	$ 1065.00
RFH300500AB150	3.00"	76.2		500	1.50"		7/8" UNO	$ 1102.00
RFH300600AB150	3.00"	76.2		600	1.50"		7/8" UNO	$ 1174.00
RFH300700AB150	3.00"	76.2		700	1.50"		7/8" UNO	$ 1247.00
RFH300800AB150	3.00"	76.2		800	1.50"		7/8" UNO	$ 1319.00
RFH300900AB150	3.00"	76.2		900	1.50"		7/8" UNO	$ 1392.00
RFH301000AB150	3.00"	76.2		1000	1.50"		7/8" UNO	$ 1465.00
ADD PER 25mm	3.00"	76.2		25	1.50”			$ 19.00



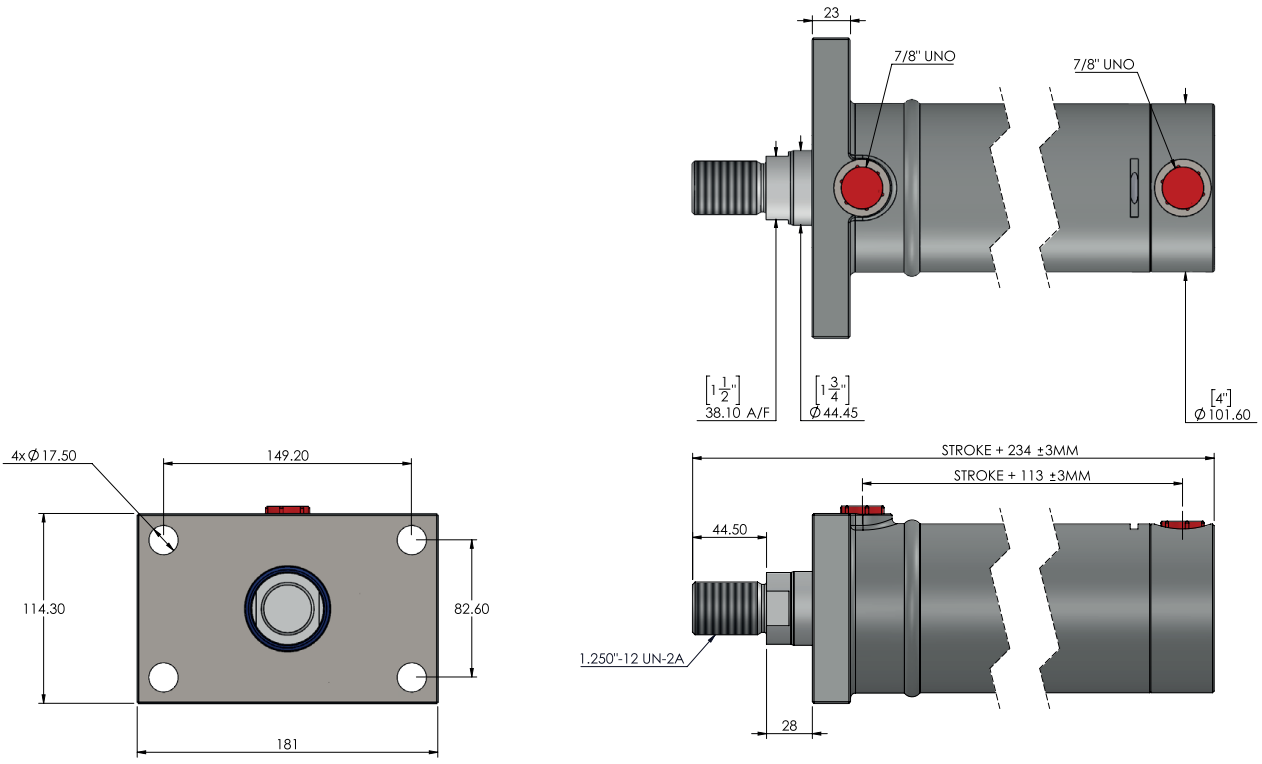




RFH Welded Cylinders

3.50” Bore Rectangular Flange Rod Cap Cylinders

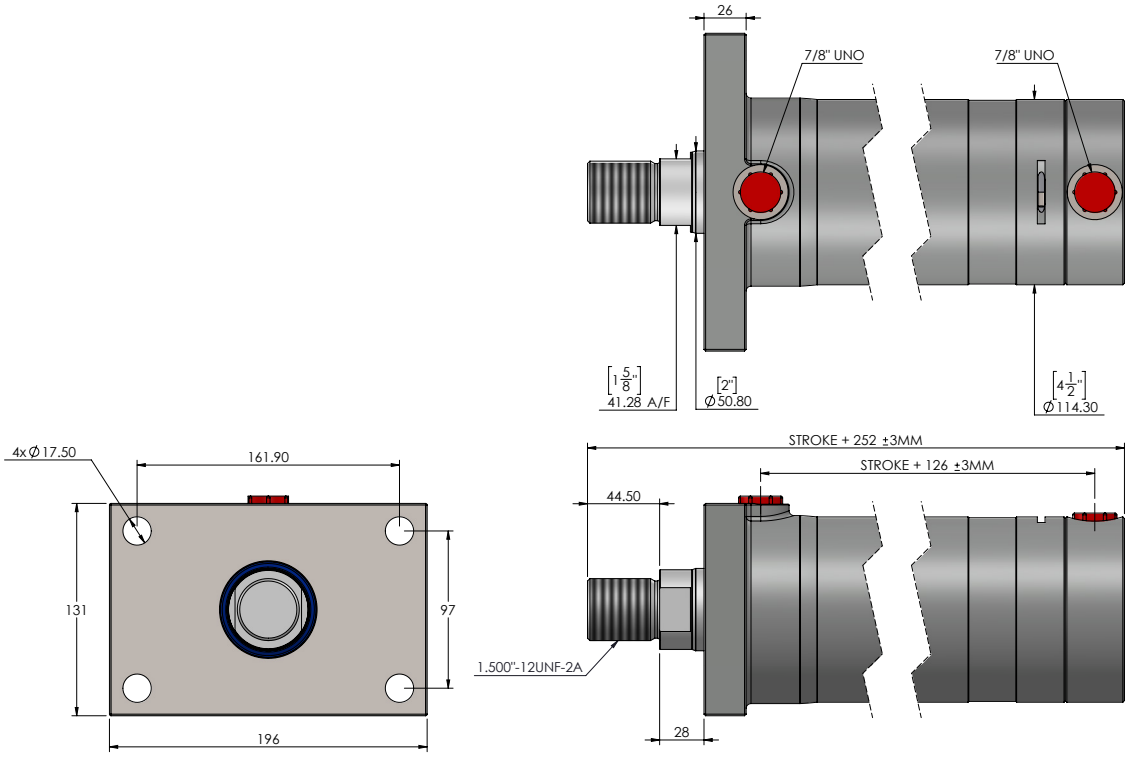
Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFH350025AC175	3.50"	88.9		25	1.750"		7/8" UNO	$ 866.00
RFH350050AC175	3.50"	88.9		50	1.750"		7/8" UNO	$ 890.00
RFH350075AC175	3.50"	88.9		75	1.750"		7/8" UNO	$ 914.00
RFH350100AC175	3.50"	88.9		100	1.750"		7/8" UNO	$ 938.00
RFH350125AC175	3.50"	88.9		125	1.750"		7/8" UNO	$ 963.00
RFH350150AC175	3.50"	88.9		150	1.750"		7/8" UNO	$ 987.00
RFH350175AC175	3.50"	88.9		175	1.750"		7/8" UNO	$ 1011.00
RFH350200AC175	3.50"	88.9		200	1.750"		7/8" UNO	$ 1035.00
RFH350250AC175	3.50"	88.9		250	1.750"		7/8" UNO	$ 1083.00
RFH350300AC175	3.50"	88.9		300	1.750"		7/8" UNO	$ 1132.00
RFH350350AC175	3.50"	88.9		350	1.750"		7/8" UNO	$ 1180.00
RFH350400AC175	3.50"	88.9		400	1.750"		7/8" UNO	$ 1229.00
RFH350450AC175	3.50"	88.9		450	1.750"		7/8" UNO	$ 1277.00
RFH350500AC175	3.50"	88.9		500	1.750"		7/8" UNO	$ 1325.00
RFH350600AC175	3.50"	88.9		600	1.750"		7/8" UNO	$ 1422.00
RFH350700AC175	3.50"	88.9		700	1.750"		7/8" UNO	$ 1519.00
RFH350800AC175	3.50"	88.9		800	1.750"		7/8" UNO	$ 1616.00
RFH350900AC175	3.50"	88.9		900	1.750"		7/8" UNO	$ 1713.00
RFH351000AC175	3.50"	88.9		1000	1.750"		7/8" UNO	$ 1809.00
ADD PER 25mm	3.50"	88.9		25	1.750”			$ 24.00



RFH Welded Cylinders

4.00” Bore Rectangular Flange Rod Cap Cylinders

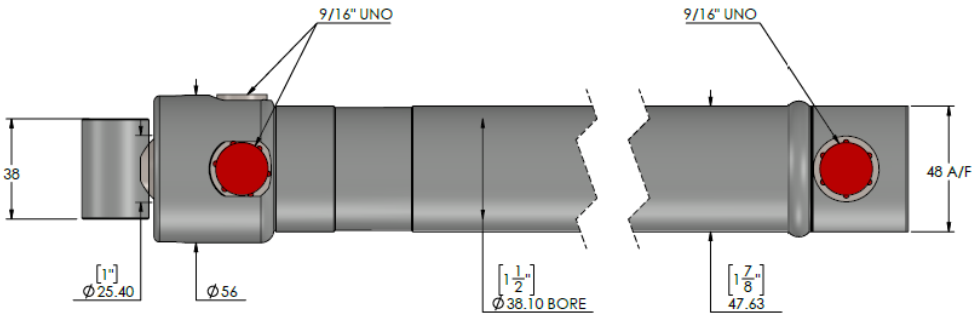
Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
RFH400025AI200	4.00"	101.6		25	2.00"		7/8" UNO	$ 1183.00
RFH400050AI200	4.00"	101.6		50	2.00"		7/8" UNO	$ 1106.00
RFH400075AI200	4.00"	101.6		75	2.00"		7/8" UNO	$ 1137.00
RFH400100AI200	4.00"	101.6		100	2.00"		7/8" UNO	$ 1166.00
RFH400125AI200	4.00"	101.6		125	2.00"		7/8" UNO	$ 1197.00
RFH400150AI200	4.00"	101.6		150	2.00"		7/8" UNO	$ 1227.00
RFH400175AI200	4.00"	101.6		175	2.00"		7/8" UNO	$ 1258.00
RFH400200AI200	4.00"	101.6		200	2.00"		7/8" UNO	$ 1287.00
RFH400250AI200	4.00"	101.6		250	2.00"		7/8" UNO	$ 1348.00
RFH400300AI200	4.00"	101.6		300	2.00"		7/8" UNO	$ 1408.00
RFH400350AI200	4.00"	101.6		350	2.00"		7/8" UNO	$ 1469.00
RFH400400AI200	4.00"	101.6		400	2.00"		7/8" UNO	$ 1529.00
RFH400450AI200	4.00"	101.6		450	2.00"		7/8" UNO	$ 1590.00
RFH400500AI200	4.00"	101.6		500	2.00"		7/8" UNO	$ 1650.00
RFH400600AI200	4.00"	101.6		600	2.00"		7/8" UNO	$ 1771.00
RFH400700AI200	4.00"	101.6		700	2.00"		7/8" UNO	$ 1892.00
RFH400800AI200	4.00"	101.6		800	2.00"		7/8" UNO	$ 2013.00
RFH400900AI200	4.00"	101.6		900	2.00"		7/8" UNO	$ 2134.00
RFH401000AI200	4.00"	101.6		1000	2.00"		7/8" UNO	$ 2255.00
ADD PER 25mm	4.00"	101.6		25	2.0”			$ 31.00

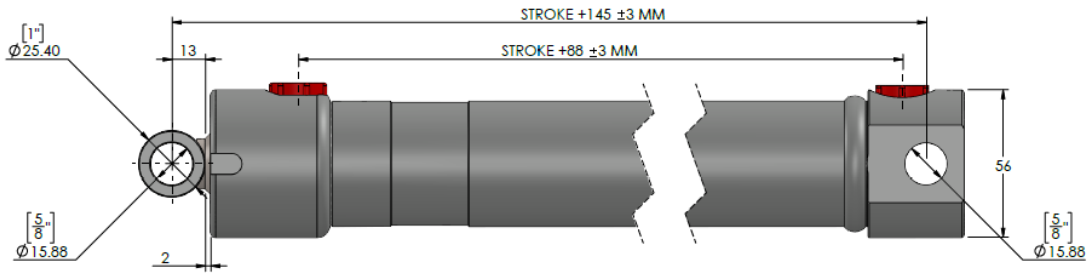


HPPH Welded Cylinders

1.50” Bore Pin Hole Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPPH15040A100A	1.50"	38.1	4.00"	101.6	1.00"	247	9/16" UNO	$ 528.00
HPPH15060A100A	1.50"	38.1	6.00"	152.4	1.00"	297	9/16" UNO	$ 528.00
HPPH15080A100A	1.50"	38.1	8.00"	203.2	1.00"	348	9/16" UNO	$ 528.00
HPPH15100A100A	1.50"	38.1	10.00"	254	1.00"	399	9/16" UNO	$ 553.00
HPPH15120A100A	1.50"	38.1	12.00"	304.8	1.00"	450	9/16" UNO	$ 577.00
ADD PER INCH (25.4mm)	1.50"	38.1	1.00”	25.4	1.00"			$ 12.00

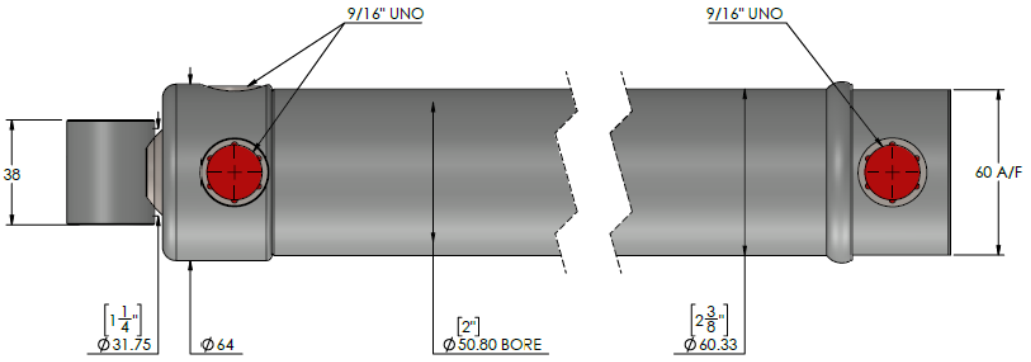


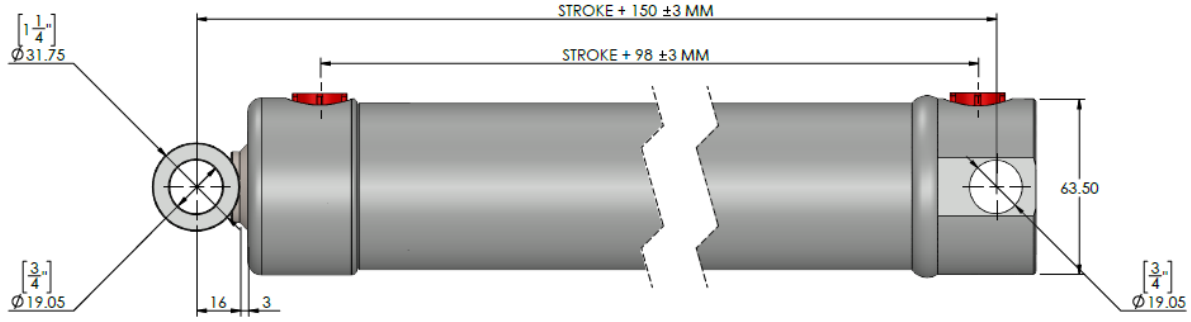


HPPH Welded Cylinders

2.00” Bore Pin Hole Hydraulic Cylinders, Screwed Rod Cap

Stock No.	Bore		Stroke		Rod Dia in	Closed Centre in	Port Size	List Price
	in	mm	in	mm				
HPPH20040A125A	2.00"	50.8	4.00"	101.6	1.25"	252	9/16" UNO	$ 528.00
HPPH20060A125A	2.00"	50.8	6.00"	152.4	1.25"	302	9/16" UNO	$ 528.00
HPPH20080A125A	2.00"	50.8	8.00"	203.2	1.25"	353	9/16" UNO	$ 528.00
HPPH20100A125A	2.00"	50.8	10.00"	254	1.25"	404	9/16" UNO	$ 553.00
HPPH20120A125A	2.00"	50.8	12.00"	304.8	1.25"	455	9/16" UNO	$ 577.00
HPPH20140A125A	2.00"	50.8	14.00"	355.6	1.25"	506	9/16" UNO	$ 601.00
HPPH20160A125A	2.00"	50.8	16.00"	406.4	1.25"	556	9/16" UNO	$ 625.00
HPPH20180A125A	2.00"	50.8	18.00"	457.2	1.25"	607	9/16" UNO	$ 649.00
HPPH20200A125A	2.00"	50.8	20.00"	508	1.25"	658	9/16" UNO	$ 674.00
ADD PER INCH (25.4mm)	2.00"	50.8	1.00”	25.4	1.25”			$ 12.00





HPAG Cylinder Accessories

Seal Kits

Stock No.	Cylinder Type	Bore Size	Shaft Size	List Price
HPSK15	HPAG Screwed	1.50"	1.00"	$ 55.00
HPSK20	HPAG Screwed	2.00"	1.25"	$ 62.00
HPSK25	HPAG Screwed	2.50"	1.50"	$ 75.00
HPSK30	HPAG Screwed	3.00"	1.50"	$ 83.00
HPSK35	HPAG Screwed	3.50"	1.75"	$ 97.00
HPSK40	HPAG Screwed	4.00"	2.00"	$ 110.00
HPSK45	HPAG Screwed	4.50"	2.00"	$ 141.00
HPSK50	HPAG Screwed	5.00"	2.00"	$ 141.00
HPSK20W	HPWG Wired	2.00"	1.00"	$ 68.00
HPSK25W	HPWG Wired	2.50"	1.375"	$ 80.00
HPSK30W	HPWG Wired	3.00"	1.375"	$ 88.00
HPSK35W	HPWG Wired	3.50"	1.750"	$ 103.00
HPSK40W	HPWG Wired	4.00"	2.00"	$ 120.00
HPSK45W	HPWG Wired	4.50"	2.00"	$ 149.00
R10015	M/S3000/SMD	2.00"	1.00"	$ 69.00
R10031	M/S3000/SMD	2.50"	1.375"	$ 69.00
R10039	M/S3000/SMD	3.00"	1.375"	$ 69.00
R10145	M/S3000/SMD	3.50"	1.750"	$ 93.00
R10146	M/S3000/SMD	4.00"	2.00"	$ 109.00
R10147	M/S3000	4.50"	2.00"	$ 128.00
R10148	M/S3000	5.00"	2.00"	$ 145.00

Rod Clevis

Stock No.	Type	Thread	Pin Size	List Price
R10135	Female	3/4"-16 UNF	3/4"	$ 92.00
FC0000401012	Female Split	3/4"-16 UNF	3/4"	$ 97.00
FC0000401001	Female	3/4"-16 UNF	1"	$ 146.00
FC0000401002	Female	1"-12 UNF	1"	$ 146.00
FC0000401003	Female	1-1/8"-12 UNF	1"	$ 146.00
FC0000401004	Female	1-1/4"-12 UNF	1"	$ 146.00
FC0000401005	Female	1-1/4" BSW	1"	$ 73.00
FC0000401006	Female	1-1/2"-12 UNF	1"	$ 165.00
FC0000401007	Female	1-1/2"-12 UNF	1-1/4"	$ 165.00

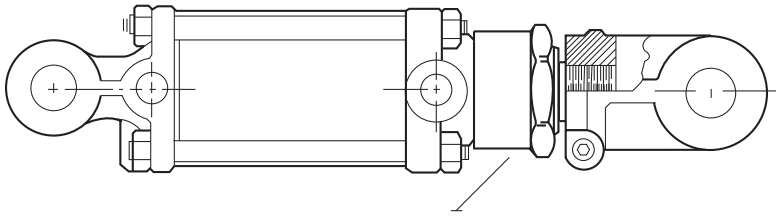
Clevis Pins

Stock No.	Type	Length	Pin Size	List Price
KT00005	Steel Pin with R Clip	44mm	3/4"	$ 17.00
KT00006	Steel Pin with R Clip	65mm	1.00"	$ 17.00
KT00007	Steel Pin with Circlip	65mm	1.00"	$ 20.00
KT00008	Steel Pin with Circlip	68mm	1.25"	$ 22.00

Cylinder Rod Stroke Control

Cross Mechanical Depth Stop Collars

Stock No.	Description	To Fit Rod Dia.	List Price
1E60001	Mechanical Depth Stop Collar	1.06”	$ 73.00
1E60011	Mechanical Depth Stop Collar	1.25”	$ 83.00

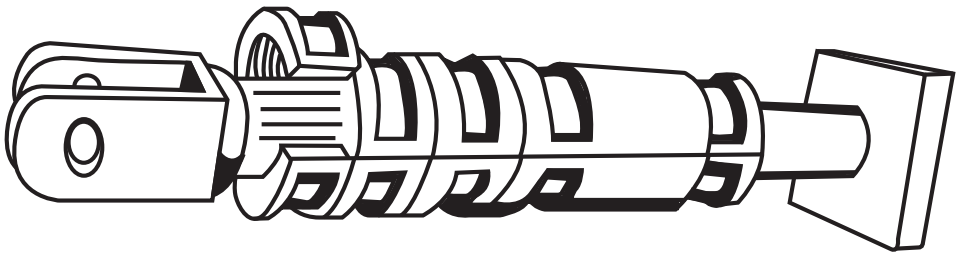


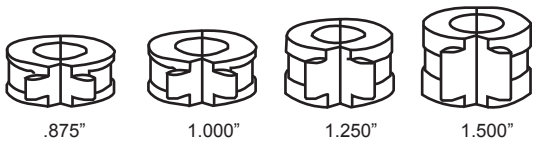
Alloy Stroke Control Segment Kits

Stock No.	Description	To Fit Rod Dia.	List Price
PM-SLCS-10	Stroke Control Segment Kit	1-1/8” to 1-1/2”	$ 143.00
PM-SLCS-14	Stroke Control Segment Kit	1-3/4” to 2.00”	$ 243.00
PM-SLCS-15	Stroke Control Segment Kit	1-3/4” to 2.00”	$ 253.00

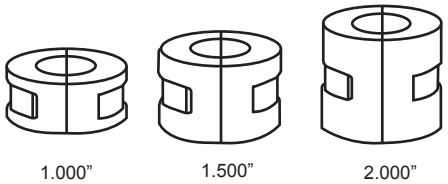
Collars are made of die cast aluminium in split halves. Flat steel springs are easy to open and snap onto the cylinder rod.

- Light Weight
- Durable
- Non-Abrasive

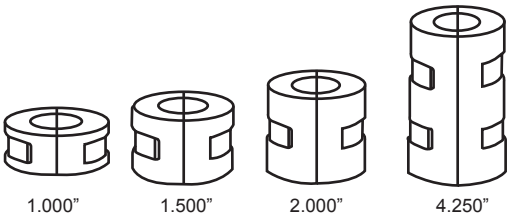




PM-SLCS-10: For 1.125 thru 1.500 dia rods
(This set has finger tabs, with relief notches)



PM-SLCS-14: For 1.750 thru 2.000 dia rods
(This set has no finger tabs)



PM-SLCS-15: For 1.750 thru 2.000 dia rods
(This set has no finger tabs)

Section 12
Filters

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OMT	OMTF Tank Top Return Line Filters	12.07
OMT	AFR Tank Top Return Line Filters	12.08
OMT	AFI Tank Top Return Line Filters	12.09
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OMT	MHP Mini Pressure Filters	12.11
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Miselli	NY Oil Fillers ~ Air Breathers	12.25
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Miselli	Metal Filler ~ Breather	12.27
OMT	MBSP Diaphragm Accumulator	12.28

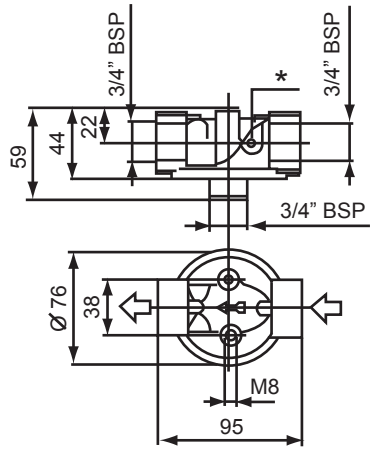
MAKE	MODEL	PAGE

OMTI Return Line Filters

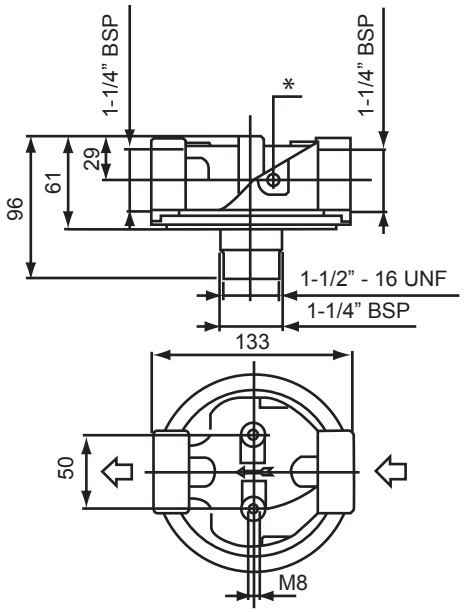
Spin-On Return Line Filters

Stock No.	Description	Suits Filter Element Part Number	Port Size	Bypass Setting	Max. Pressure		List Price
T05VOR	Filter Head Only	CS05*N	3/4” BSPP Threaded	25 PSI	12 BAR	174 PSI	$ 52.00
T10VOR	Filter Head Only	CS10*N /CS15*N / FB**	1-1/4” BSPP Threaded	25 PSI	12 BAR	174 PSI	$ 64.00
T20VOR	Twin Filter Head	CS10*N /CS15*N / FB**	1-1/2” BSPP Threaded	25 PSI	12 BAR	174 PSI	$ 146.00
T31VOR	Twin Filter Head	CS10*N /CS15*N / FB**	1-1/2” SAE Split Flange	25 PSI	12 BAR	174 PSI	$ 529.00

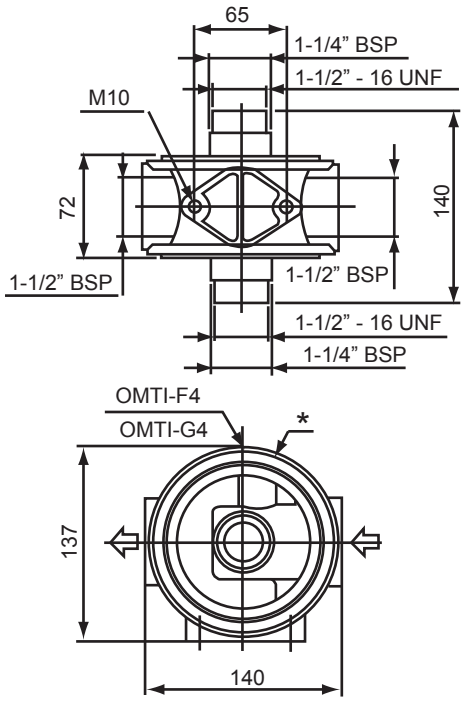
HEAD TYPE T05



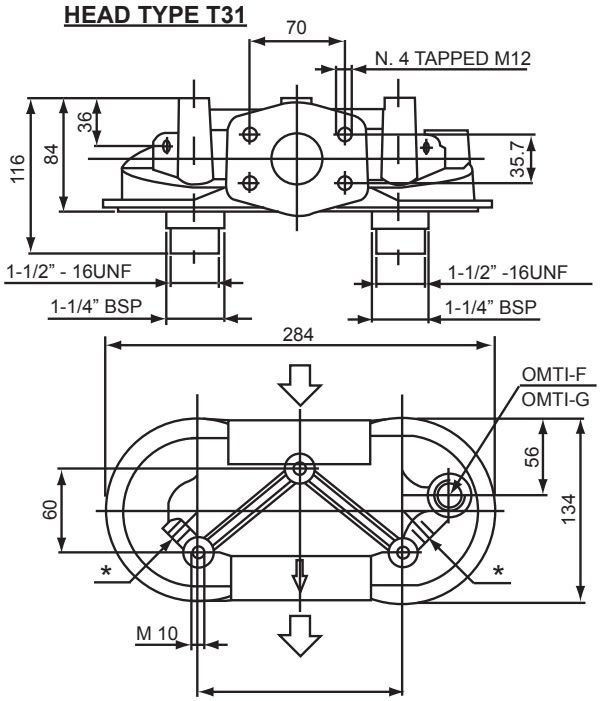
HEAD TYPE T10



HEAD TYPE T20



HEAD TYPE T31



OMTI Return Line Filters

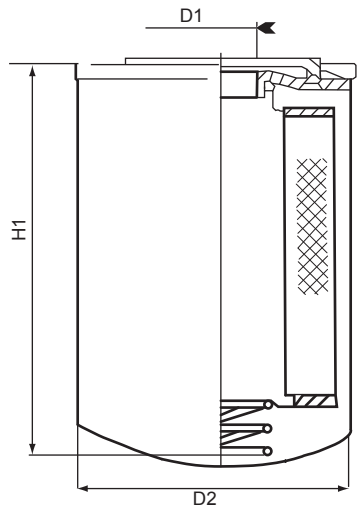
Filter Elements

Stock No.	Description	Micron Rating	Fits Filter Head	Max. Pressure	List Price
CS05AN	Filter Element	10 Micron	T05VOR	12 BAR	$ 45.00
CS05BN	Filter Element	25 Micron	T05VOR	12 BAR	$ 45.00
CS05EN	Brass Mesh Filter Element	125 Micron	T05VOR	12 BAR	$ 69.00
CS06AN	Filter Element	10 Micron	T05VOR	12 BAR	$ 70.00
CS06BN	Filter Element	25 Micron	T05VOR	12 BAR	$ 70.00
CS06EN	Brass Mesh Filter Element	125 Micron	T05VOR	12 BAR	$ 92.00
CS10AN	Filter Element	10 Micron	T10/T20/T31VOR	12 BAR	$ 76.00
CS10BN	Filter Element	25 Micron	T10/T20/T31VOR	12 BAR	$ 76.00
CS10EN	Brass Mesh Filter Element	125 Micron	T10/T20/T31VOR	12 BAR	$ 108.00
CS15AN	Filter Element	10 Micron	T10/T20/T31VOR	12 BAR	$ 95.00
CS15BN	Filter Element	25 Micron	T10/T20/T31VOR	12 BAR	$ 95.00
CS15EN	Brass Mesh Filter Element	125 Micron	T10/T20/T31VOR	12 BAR	$ 125.00

Dimensions

Code	D1	D2	H1
CS05	3/4” BSP	98	145
CS06	3/4” BSP	98	165
CS10	1-1/4” BSP	132	180
CS15	1-1/4” BSP	132	205

CARTRIDGE SERIES CS



Oil Flow - L/Min

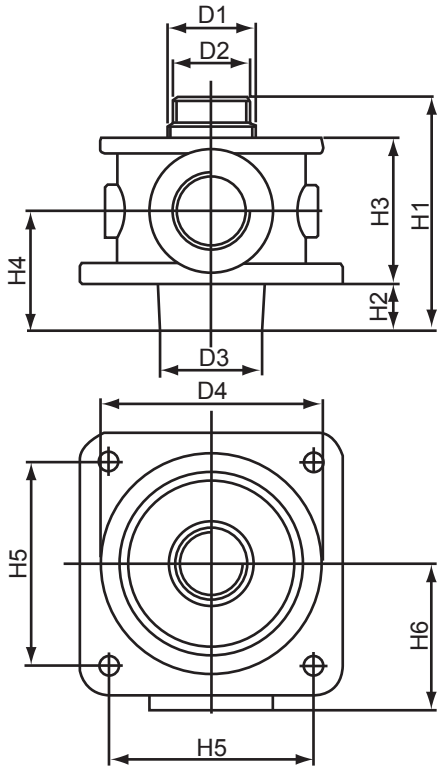
Filter		ΔP Bar			
Type	Micron	0.05	0.10	0.25	0.50
05	10	24	35	60	89
	25	33	40	73	98
06	10	27	38	67	99
	25	38	52	77	115
10	10	49	74	125	185
	25	71	105	170	245
15	10	53	80	135	205
	25	76	115	185	260

OMTI Return Line Filters

Spin-On Return Line Filters

Stock No.	Description	Suits Filter Element Part Number	Port Size	Bypass Setting	Max. Pressure		List Price
TF05VO	Filter Head Only	CSM05 / 06ANR	3/4” BSPP Threaded	25 PSI	12 BAR	174 PSI	$ 64.00
TF10VO	Filter Head Only	CSM10ANR	1-1/4” BSPP Threaded	25 PSI	12 BAR	174 PSI	$ 83.00

HEAD TYPE TF05 - TF10



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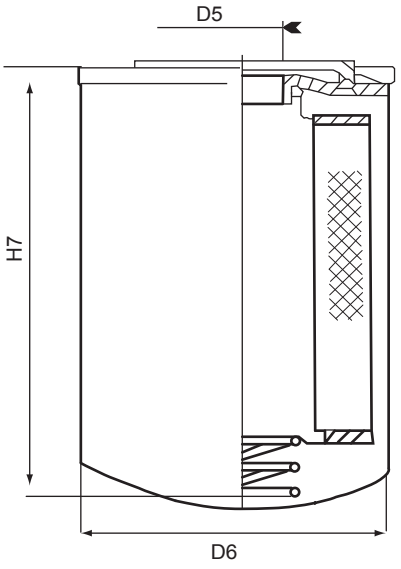


Type	Dimensional Details													Max. Flow
	D1 BSP	D2	D3	D4	D5 BSP	D6	H1	H2	H3	H4	H5	H6	H7	
TF05	3/4”	-	35	76	3/4”	98	80	16	50	41	70	50	145	95
TF10	1-1/4”	1-1/2” 16 UNF	60	135	1-1/4”	132	127	20	73	56	100	70	180	240

Filter Elements

Stock No.	Description	Micron Rating	Fits Filter Head	Max. Pressure	List Price
CSM05ANR	Filter Element	10 Micron	TF05VO	12 BAR	$ 67.00
CSM06ANR	Filter Element	10 Micron	TF05VO	12 BAR	$ 82.00
CSM10ANR	Filter Element	10 Micron	TF10VO	12 BAR	$ 101.00

FA & FB Return Line Filters

Return Line Filters

Stock No.	Description	Port Size	Maximum Flow Rate	Bypass Setting	Max. Pressure	List Price
FA1200	Filter Head Only	3/4" NPT	20 GPM	15 PSI	150 PSI	$ 69.00
FB1200	Filter Head Only	1-1/4" NPT	45 GPM	15 PSI	150 PSI	$ 98.00

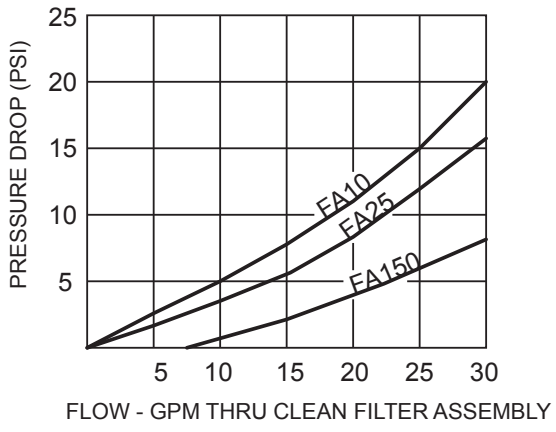
Filter Elements

Stock No.	Alt. Code	Description	Micron Rating	Maximum Flow Rate	Fits Filter Head	Max. Pressure	List Price
FA10	1A9021	Filter Element	10 Micron	20 GPM	FA1200	150 PSI	$ 31.00
FA25	1A9023	Filter Element	25 Micron	20 GPM	FA1200	150 PSI	$ 31.00
FA150		Filter Element	150 Micron	20 GPM	FA1200	150 PSI	$ 76.00
FB10	1A9251	Filter Element	10 Micron	45 GPM	FB1200	150 PSI	$ 55.00
FB25	1A9253	Filter Element	25 Micron	45 GPM	FB1200	150 PSI	$ 55.00
FB150		Filter Element	150 Micron	45 GPM	FB1200	150 PSI	$ 132.00

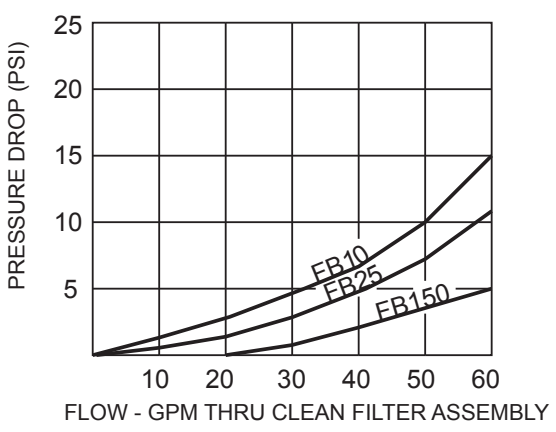
Options and Accessories

Stock No.	Description	Pressure Rating	Fits Filter Head	List Price
180900669	Return Line Gauge	0-200 PSI Pressure	FA1200 & FB1200	$ 84.00
180900778	Vacuum Gauge	0-30" Hg Vacuum	FA1200 & FB1200	$ 68.00
270018001	No Bypass Kit	none	FA1200	$ 9.50
270018002	Suction Bypass Kit	5 PSI	FA1200	$ 9.50
270018003	Standard Bypass Kit	15 PSI	FA1200	$ 9.50
270018004	Return Line Bypass Kit	25 PSI	FA1200	$ 9.50
270018021	No Bypass Kit	none	FB1200	$ 9.50
270018022	Suction Bypass Kit	5 PSI	FB1200	$ 9.50
270018023	Standard Bypass Kit	15 PSI	FB1200	$ 9.50
270018024	Return Line Bypass Kit	25 PSI	FB1200	$ 9.50

120 SUS OIL VISCOSITY AT 110°F



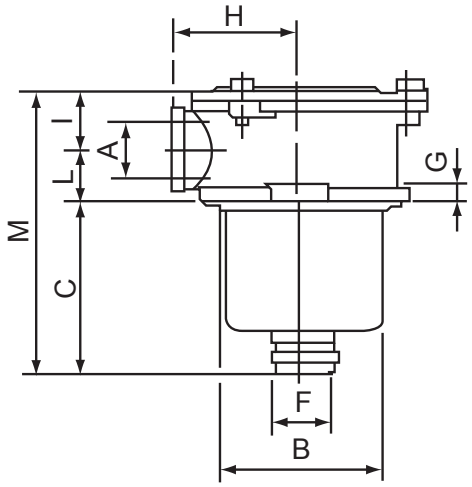
120 SUS OIL VISCOSITY AT 110°F



OMTF Tank Top Return Line Filters

Tank Top Return Line Filters

Stock No.	Description	Max. Flow Rate	Port Size	Micron Rating	Bypass Setting	Max. Pressure		List Price
OMTF40AN	Tank Top Filter	40 LPM	1/2” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 72.00
OMTF65AN	Tank Top Filter	50 LPM	1/2” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 95.00
OMTF75AN	Tank Top Filter	60 LPM	3/4” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 95.00
OMTF85AN	Tank Top Filter	85 LPM	3/4” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 95.00
OMTF150AN	Tank Top Filter	150 LPM	1” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 152.00
OMTF200AN	Tank Top Filter	225 LPM	1-1/4” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 189.00
OMTF280AN	Tank Top Filter	250 LPM	1-1/4” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 253.00
OMTF300AN	Tank Top Filter	300 LPM	1-1/2” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 276.00
OMTF350AN	Tank Top Filter	350 LPM	2” BSPP	10 Micron	1.2 BAR	3 BAR	43 PSI	$ 300.00



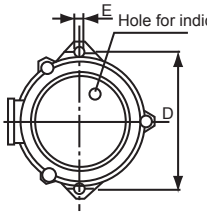


FIG. 1

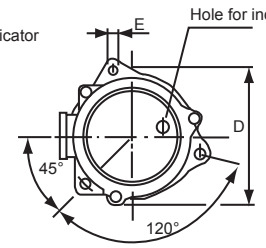


FIG. 2

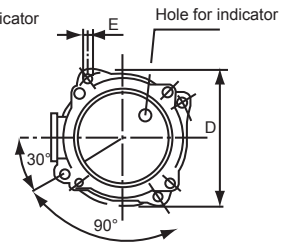


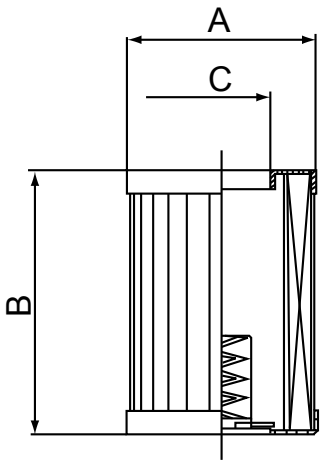
FIG. 3

Fig.	Type	A BSPP	B	C	D	E	F	G	H	I	L	M	Weight kg	Flow
1	OMTF40	1/2”	66	82	90	7	24	8	50	26	21	129	0.45	30
	OMTF65		86	92	115	9	28	10	67	34	29	155	0.85	50
	OMTF75	3/4”											0.90	60
	OMTF85			137								200	1.00	80
2	OMTF150	1”	129	235	175	11	40	10	95	45	35	315	2.30	150
	OMTF200	1-1/4”											2.10	180
3	OMTF280		173	166	220	11	50	11	120	48	38	250	3.00	200
	OMTF300	1-1/2”		226								310	3.20	350
	OMTF350	2”		276			63					360	3.50	600

OMTF Tank Top Return Line Filters

Tank Top Filter Elements

Stock No.	Description	Micron Rating	Fits Filter Head	Max. Pressure	List Price
CR40AN	Tank Top Replacement Filter Element	10 Micron	OMTF40*N	3 BAR	$ 24.00
CR40BN	Tank Top Replacement Filter Element	25 Micron	OMTF40*N	3 BAR	$ 69.00
CR40GN	Tank Top Replacement Filter Element	10 Micron Inorganic	OMTF40*N	3 BAR	$ 46.00
CR65AN	Tank Top Replacement Filter Element	10 Micron	OMTF65/75*N	3 BAR	$ 32.00
CR65BN	Tank Top Replacement Filter Element	25 Micron	OMTF65/75*N	3 BAR	$ 32.00
CR65GN	Tank Top Replacement Filter Element	10 Micron Inorganic	OMTF65/75*N	3 BAR	$ 55.00
CR100AN	Tank Top Replacement Filter Element	10 Micron	OMTF85*N	3 BAR	$ 36.00
CR100BN	Tank Top Replacement Filter Element	25 Micron	OMTF85*N	3 BAR	$ 36.00
CR100CN	Tank Top Replacement Filter Element	60 Micron Mesh	OMTF85*N	3 BAR	$ 47.00
CR100EN	Tank Top Replacement Filter Element	125 Micron Mesh	OMTF85*N	3 BAR	$ 48.00
CR100GN	Tank Top Replacement Filter Element	10 Micron Inorganic	OMTF85*N	3 BAR	$ 69.00
CR200AN	Tank Top Replacement Filter Element	10 Micron	OMTF150/200*N	3 BAR	$ 59.00
CR200BN	Tank Top Replacement Filter Element	25 Micron	OMTF150/200*N	3 BAR	$ 59.00
CR200CN	Tank Top Replacement Filter Element	60 Micron Mesh	OMTF150/200*N	3 BAR	$ 120.00
CR200GN	Tank Top Replacement Filter Element	10 Micron Inorganic	OMTF150/200*N	3 BAR	$ 150.00
CR280AN	Tank Top Replacement Filter Element	10 Micron	OMTF280*N	3 BAR	$ 68.00
CR280BN	Tank Top Replacement Filter Element	25 Micron	OMTF280*N	3 BAR	$ 68.00
CR280GN	Tank Top Replacement Filter Element	10 Micron Inorganic	OMTF280*N	3 BAR	$ 150.00
CR300AN	Tank Top Replacement Filter Element	10 Micron	OMTF300*N	3 BAR	$ 82.00
CR300BN	Tank Top Replacement Filter Element	25 Micron	OMTF300*N	3 BAR	$ 82.00
CR300GN	Tank Top Replacement Filter Element	10 Micron Inorganic	OMTF300*N	3 BAR	$ 166.00
CR300HN	Tank Top Replacement Filter Element	25 Micron Inorganic	OMTF300*N	3 BAR	$ 166.00
CR350AN	Tank Top Replacement Filter Element	10 Micron	OMTF350*N	3 BAR	$ 89.00
CR350BN	Tank Top Replacement Filter Element	25 Micron	OMTF350*N	3 BAR	$ 89.00
CR350GN	Tank Top Replacement Filter Element	10 Micron Inorganic	OMTF350*N	3 BAR	$ 227.00



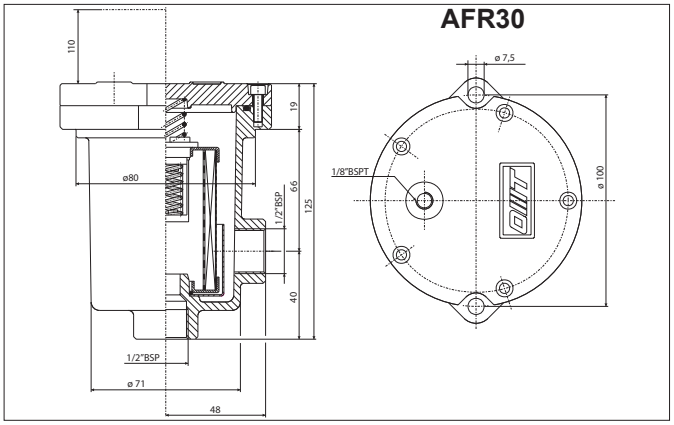
Dimensions

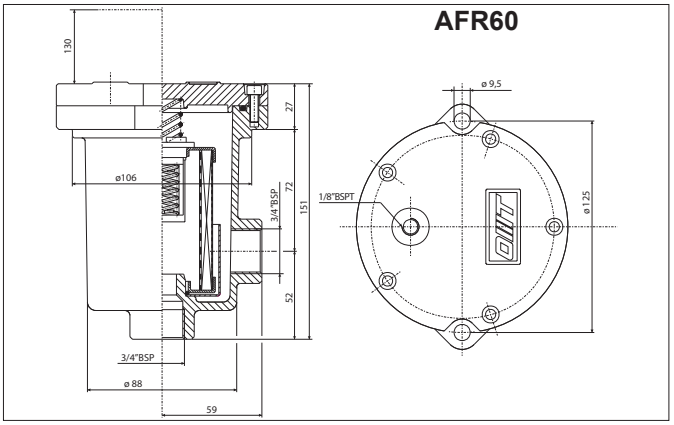
Code	A	B	C
CR40	50	70	25
CR65	70	85	28.5
CR100		130	
CR200	99	210	41
CR280	137	140	
CR300		200	51
CR350		250	64

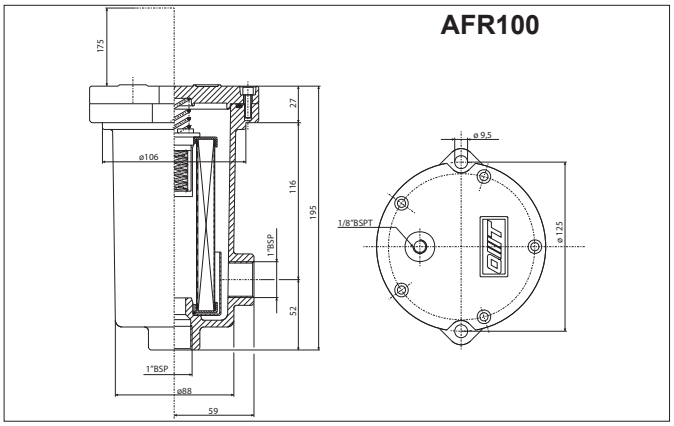
AFR Tank Top Return Line Filters

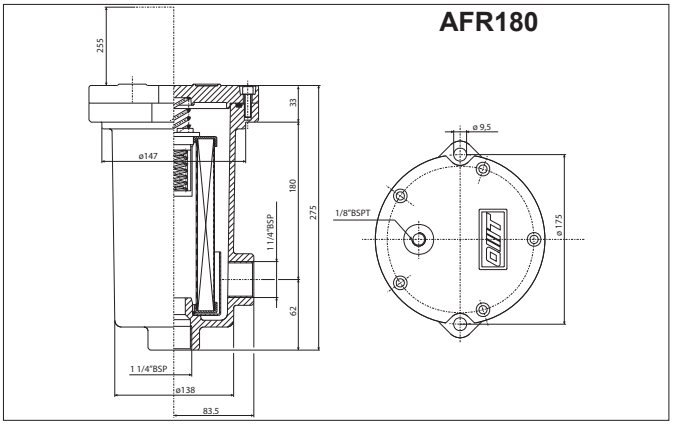
Tank Top Return Line Filters

Stock No.	Description	Max. Flow Rate	Port Size	Micron Rating	Bypass Setting	Max. Pressure		List Price
AFR30ANR	Tank Top Filter	30 LPM	1/2” BSPP	10 Micron	1.5 BAR	15 BAR	217 PSI	$ 137.00
AFR30BNR	Tank Top Filter	30 LPM	1/2” BSPP	25 Micron	1.5 BAR	15 BAR	217 PSI	$ 137.00
AFR60ANR	Tank Top Filter	60 LPM	3/4” BSPP	10 Micron	1.5 BAR	15 BAR	217 PSI	$ 189.00
AFR60BNR	Tank Top Filter	60 LPM	3/4” BSPP	25 Micron	1.5 BAR	15 BAR	217 PSI	$ 189.00
AFR100ANR	Tank Top Filter	100 LPM	1” BSPP	10 Micron	1.5 BAR	15 BAR	217 PSI	$ 207.00
AFR100BNR	Tank Top Filter	100 LPM	1” BSPP	25 Micron	1.5 BAR	15 BAR	217 PSI	$ 207.00
AFR180ANR	Tank Top Filter	180 LPM	1-1/4” BSPP	10 Micron	1.5 BAR	15 BAR	217 PSI	$ 304.00
AFR180BNR	Tank Top Filter	180 LPM	1-1/4” BSPP	25 Micron	1.5 BAR	15 BAR	217 PSI	$ 304.00









Tank Top Filter Elements

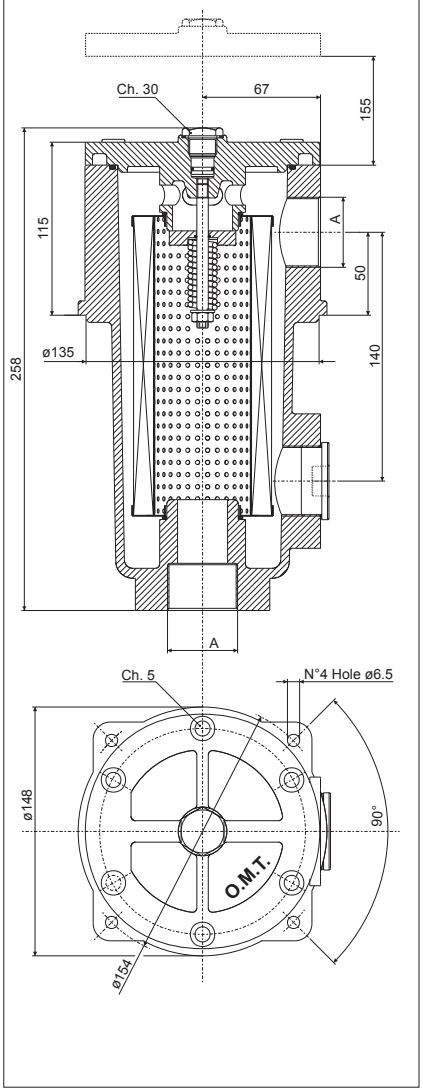
Stock No.	Description	Micron Rating	Fits Filter Assembly	Max. Pressure	List Price
CA30ANR	Tank Top Replacement Filter Element	10 Micron	AFR30*NR	15 BAR	$ 25.00
CA30BNR	Tank Top Replacement Filter Element	25 Micron	AFR30*NR	15 BAR	$ 25.00
CA60ANR	Tank Top Replacement Filter Element	10 Micron	AFR60*NR	15 BAR	$ 30.00
CA60BNR	Tank Top Replacement Filter Element	25 Micron	AFR60*NR	15 BAR	$ 30.00
CA100ANR	Tank Top Replacement Filter Element	10 Micron	AFR100*NR	15 BAR	$ 35.00
CA100BNR	Tank Top Replacement Filter Element	25 Micron	AFR100*NR	15 BAR	$ 35.00
CA180ANR	Tank Top Replacement Filter Element	10 Micron	AFR180*NR	15 BAR	$ 60.00
CA180BNR	Tank Top Replacement Filter Element	25 Micron	AFR180*NR	15 BAR	$ 60.00

AFI Tank Top Return Line Filters

Tank Top Return Line Filters

Stock No.	Description	Max. Flow Rate	Port Size	Micron Rating	Bypass Setting	Max. Pressure		List Price
AFI100C10NR	Tank Top Filter	120 LPM	1” BSPP	10 Micron	3 BAR	20 BAR	290 PSI	$ 230.00
AFI250C10NR	Tank Top Filter	300 LPM	1-1/2” BSPP	10 Micron	3 BAR	20 BAR	290 PSI	$ 529.00
AFI250C10NR3	Tank Top Filter	300 LPM	1-1/2” SAE3000	10 Micron	3 BAR	20 BAR	290 PSI	$ 529.00
AFI630C10NR3	Tank Top Filter	650 LPM	2-1/2” SAE3000	10 Micron	3 BAR	20 BAR	290 PSI	$ 834.00

AFI100



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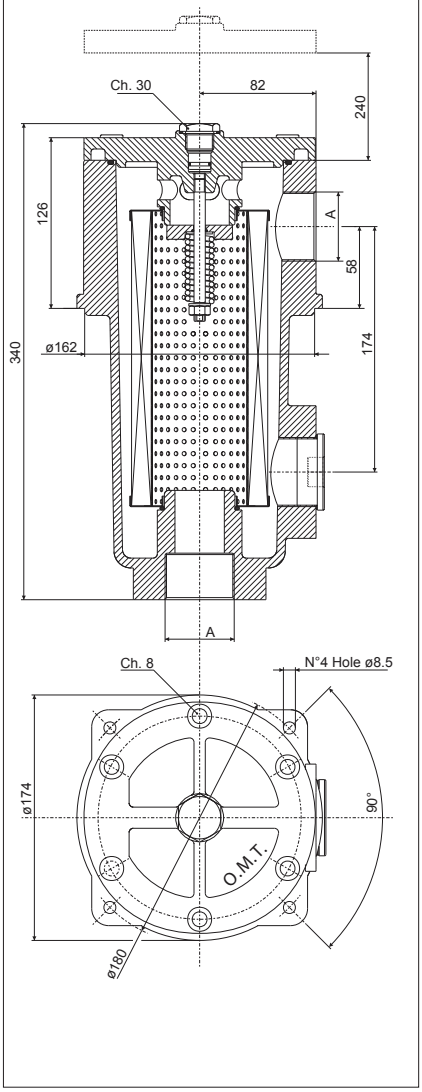

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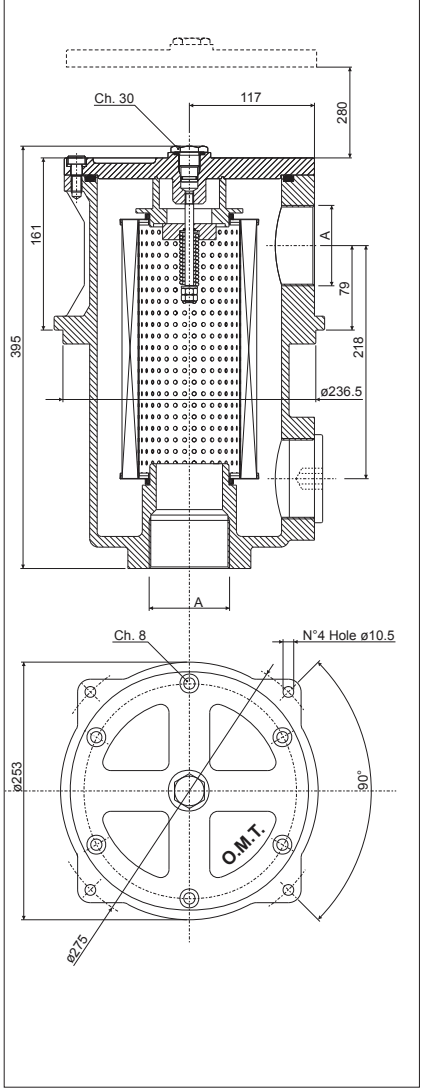


Tank Top Filter Elements

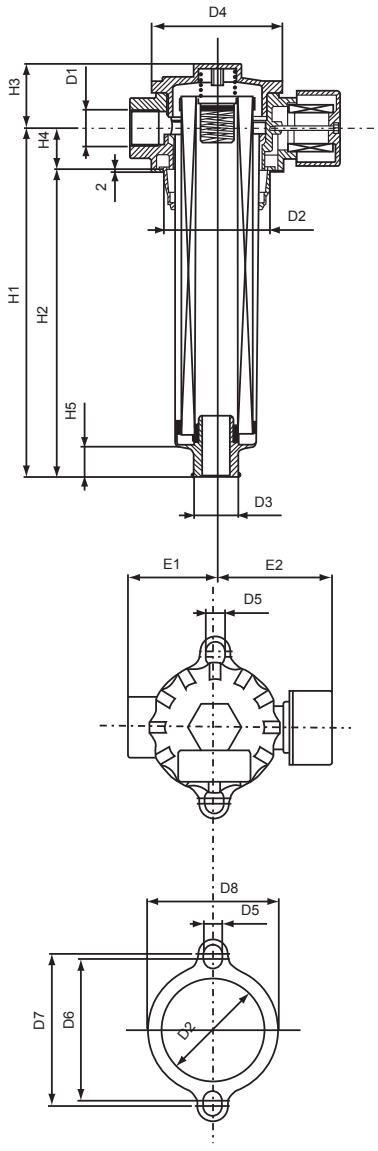
Stock No.	Description	Micron Rating	Fits Filter Assembly	Max. Pressure	List Price
CFI100C10	Tank Top Replacement Filter Element	10 Micron	AFI100*NR	20 BAR	$ 52.00
CFI250C10	Tank Top Replacement Filter Element	10 Micron	AFI250*NR*	20 BAR	$ 52.00
CFI630C10	Tank Top Replacement Filter Element	10 Micron	AFI630*NR3	20 BAR	$ 75.00

OMTP Tank Top Filter/Filler

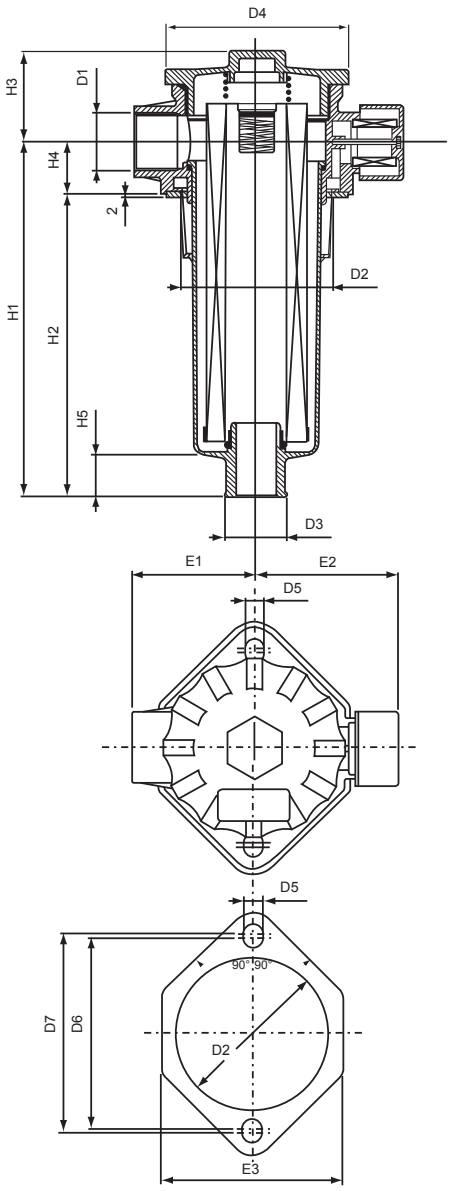
Tank Top Filter/Filler

Stock No.	Description	Max. Flow Rate	Port Size	Micron Rating	Bypass Setting	Max. Pressure		List Price
OMTP20AN10	Tank Top Filter/Filler	40 LPM	1/2” BSPP	10 Micron	1.5 BAR	10 BAR	43 PSI	$ 76.00
OMPT1001AN10	Tank Top Filter/Filler	80 LPM	3/4” BSPP	10 Micron	1.5 BAR	10 BAR	43 PSI	$ 133.00
OMTP1002AN10	Tank Top Filter/Filler	120 LPM	1” BSPP	10 Micron	1.5 BAR	10 BAR	43 PSI	$ 140.00

OMTP20



OMTP100 1-2-3

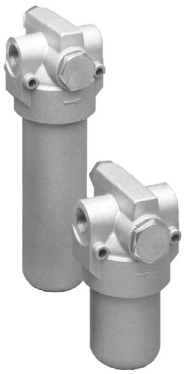


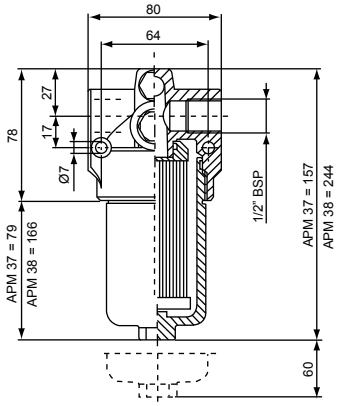
Type	D1	D2	D3	D4	D5	D6	D7	D8	H1	H2	H3	H4	H5	E1	E2	E3
OMTP20	1/2” 3/4”	Min.60 Max.63	28	75	11	82	88	77	202	178	41	24	16	50	70	-
OMTP100-1	3/4” 1”	Min.87 Max.91	36	104	11	110	115	-	140	110	60	30	22	70	83	103
OMTP100-2			36	104	11	110	115	-	205	175	60	30	22	70	83	103
OMTP100-3			36	104	11	110	115	-	305	275	60	30	22	70	83	103

APM Medium Pressure Filters

Medium Pressure In-Line Filters

Stock No.	Description	Max. Flow Rate	Port Size	Micron Rating	Bypass Setting	Weight Kg	Max. Pressure		List Price
APM37GNR	Pressure Filter	60 LPM	1/2" BSPP	10 Micron	6 BAR	0.950	110 BAR	1595 PSI	$ 292.00
APM38GNR	Pressure Filter	90 LPM	1/2" BSPP	10 Micron	6 BAR	1.250	110 BAR	1595 PSI	$ 377.00





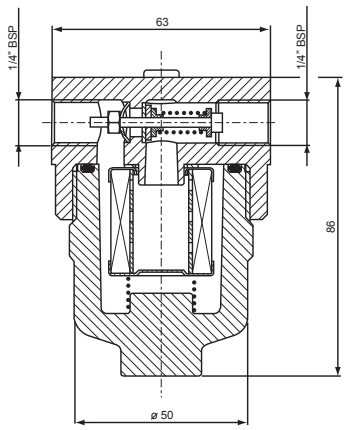
Medium Pressure Replacement Filter Elements

Stock No.	Description	Micron Rating	Fits Filter Assembly	Max. Pressure	List Price
CPM37GN	Medium Pressure Filter Element	10 Micron	APM37*NR	110 BAR	$ 76.00
CPM38GN	Medium Pressure Filter Element	10 Micron	APM38*NR	110 BAR	$ 99.00

MHP Mini Pressure Filters

Mini Pressure In-Line Filters

Stock No.	Description	Max. Flow Rate	Port Size	Micron Rating	Bypass Setting	Weight Kg	Max. Pressure		List Price
MHP220ANR	Pressure Filter	20 LPM	1/4" BSPP	10 Micron	6 BAR	1.250	280 BAR	4060 PSI	$ 239.00



Mini Pressure Replacement Filter Elements

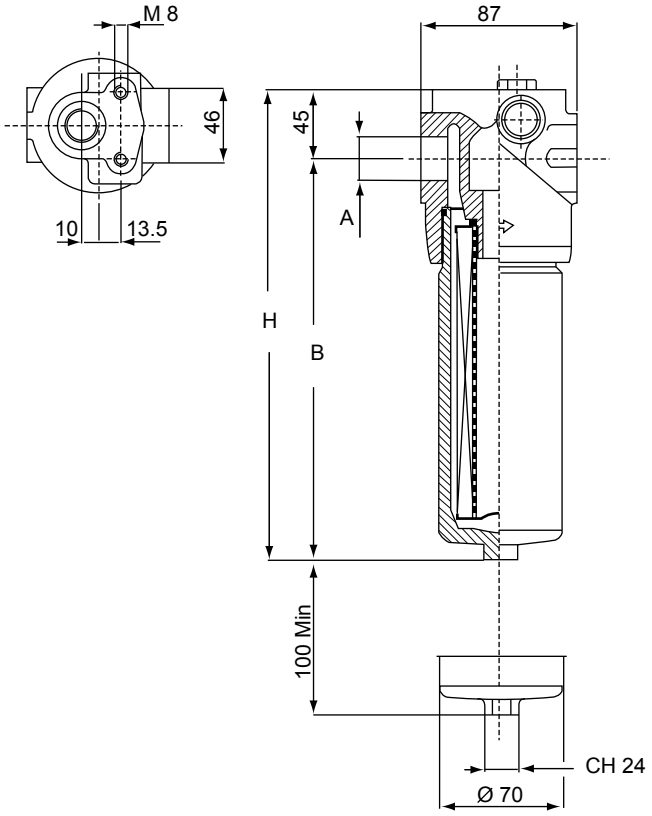
Stock No.	Description	Micron Rating	Fits Filter Assembly	Max. Pressure	List Price
MHPR220AN	Mini Pressure Filter Element	10 Micron	MHP220*NR	280 BAR	$ 22.00
MHPR220BN	Mini Pressure Filter Element	25 Micron	MHP220*NR	280 BAR	$ 22.00

HPM High Pressure Filters

High Pressure In-Line Filter Housings ***No Element - Refer Table Next Page

Stock No.	Description	Max. Flow Rate	Port Size	Bypass Setting	Max. Pressure		List Price
HPM281*NR	High Pressure Filter	85 LPM	1/2" BSPP	6 BAR	420 BAR	6000 PSI	$ 332.00
HPM281*NR1	High Pressure Filter	85 LPM	3/4" BSPP	6 BAR	420 BAR	6000 PSI	$ 332.00
HPM282*NR	High Pressure Filter	85 LPM	1/2" BSPP	6 BAR	420 BAR	6000 PSI	$ 344.00
HPM282*NR1	High Pressure Filter	85 LPM	3/4" BSPP	6 BAR	420 BAR	6000 PSI	$ 344.00
HPM283*NR	High Pressure Filter	85 LPM	1/2" BSPP	6 BAR	420 BAR	6000 PSI	$ 394.00
HPM283*NR1	High Pressure Filter	85 LPM	3/4" BSPP	6 BAR	420 BAR	6000 PSI	$ 394.00

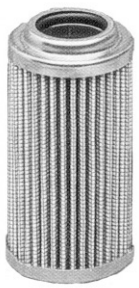
Code	A	B	H
HPM281	Refer Port Sizes Above	144	189
HPM282		174	219
HPM283		274	319



HPM High Pressure Filters

High Pressure Filter Elements

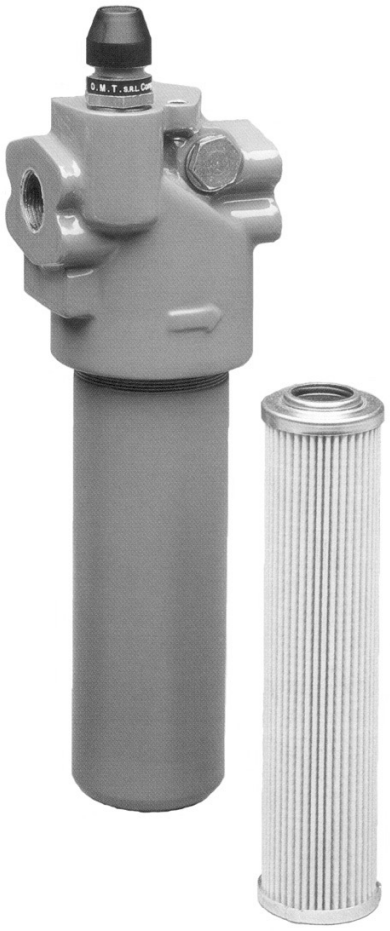
Stock No.	Description	Micron Rating	Fits Filter Head	Δ p	List Price
CHP281FXN	High Pressure Filter Element	3 Micron	HPM281****	20 BAR	$ 89.00
CHP281GXN		10 Micron			$ 76.00
CHP281HXN		25 Micron			$ 61.00
CHP281NXN		6 Micron			$ 89.00
CHP281FYN		3 Micron		210 BAR	$ 245.00
CHP281GYN		10 Micron			$ 220.00
CHP281HYN		25 Micron			$ 220.00
CHP281NYN		6 Micron			$ 245.00
CHP282FXN	High Pressure Filter Element	3 Micron	HPM282****	20 BAR	$ 100.00
CHP282GXN		10 Micron			$ 86.00
CHP282HXN		25 Micron			$ 70.00
CHP282NXN		6 Micron			$ 99.00
CHP282FYN		3 Micron		210 BAR	$ 275.00
CHP282GYN		10 Micron			$ 245.00
CHP282HYN		25 Micron			$ 220.00
CHP282NYN		6 Micron			$ 273.00
CHP283FXN	High Pressure Filter Element	3 Micron	HPM283****	20 BAR	$ 144.00
CHP283GXN		10 Micron			$ 118.00
CHP283HXN		25 Micron			$ 101.00
CHP283NXN		6 Micron			$ 144.00
CHP283FYN		3 Micron		210 BAR	$ 329.00
CHP283GYN		10 Micron			$ 316.00
CHP283HYN		25 Micron			$ 279.00
CHP283NYN		6 Micron			$ 329.00



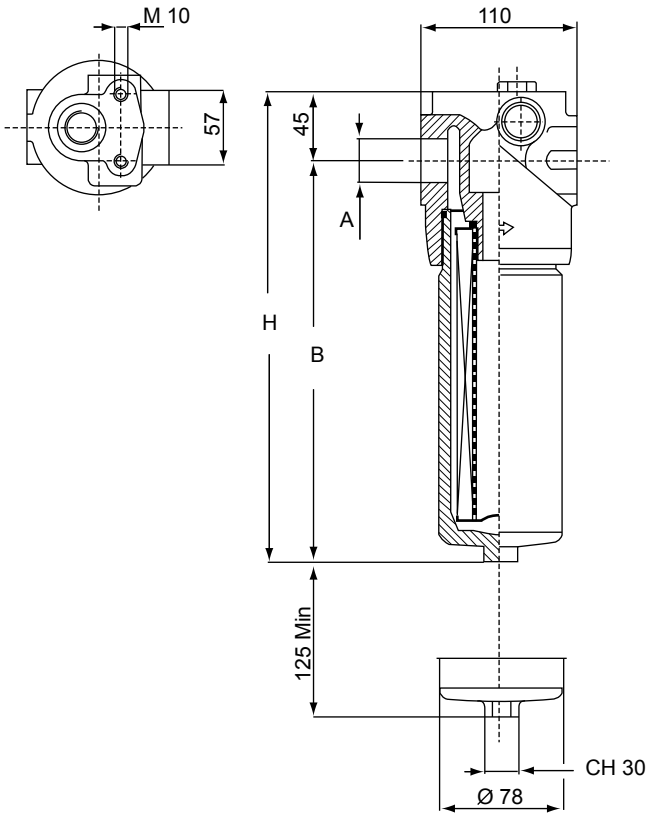
HPM High Pressure Filters

High Pressure In-Line Filter Housings ***No Element - Refer Table Next Page

Stock No.	Description	Max. Flow Rate	Port Size	Bypass Setting	Max. Pressure		List Price
HPM421*NR	High Pressure Filter	140 LPM	3/4” BSPP	6 BAR	420 BAR	6000 PSI	$ 501.00
HPM421*NR1	High Pressure Filter	140 LPM	1” BSPP	6 BAR	420 BAR	6000 PSI	$ 501.00
HPM422*NR	High Pressure Filter	140 LPM	3/4” BSPP	6 BAR	420 BAR	6000 PSI	$ 611.00
HPM422*NR1	High Pressure Filter	140 LPM	1” BSPP	6 BAR	420 BAR	6000 PSI	$ 611.00
HPM422*NR12	High Pressure Filter	140 LPM	1-1/4” BSPP	6 BAR	420 BAR	6000 PSI	$ 611.00



Code	A	B	H
HPM421	Refer Port Sizes Above	232	277
HPM422		345	390



HPM High Pressure Filters

High Pressure Filter Elements

Stock No.	Description	Micron Rating	Fits Filter Head	Δ p	List Price
CHP421FXN	High Pressure Filter Element	3 Micron	HPM421****	20 BAR	$ 123.00
CHP421GXN		10 Micron			$ 107.00
CHP421HXN		25 Micron			$ 86.00
CHP421NXN		6 Micron			$ 166.00
CHP421FYN		3 Micron		210 BAR	$ 345.00
CHP421GYN		10 Micron			$ 304.00
CHP421HYN		25 Micron			$ 248.00
CHP421NYN		6 Micron			$ 345.00

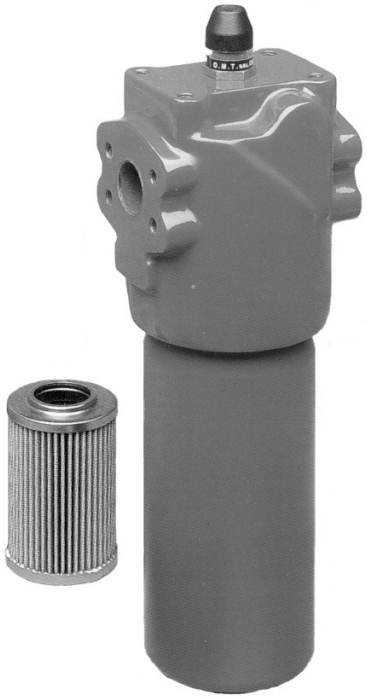
CHP422FXN	High Pressure Filter Element	3 Micron	HPM422****	20 BAR	$ 166.00
CHP422GXN		10 Micron			$ 141.00
CHP422HXN		25 Micron			$ 123.00
CHP422NXN		6 Micron			$ 162.00
CHP422FYN		3 Micron		210 BAR	$ 461.00
CHP422GYN		10 Micron			$ 435.00
CHP422HYN		25 Micron			$ 345.00
CHP422NYN		6 Micron			$ 461.00

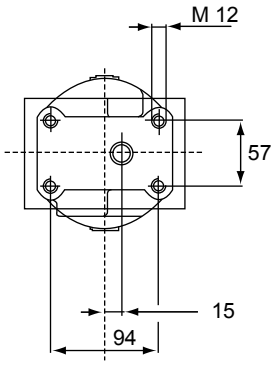
HPM High Pressure Filters

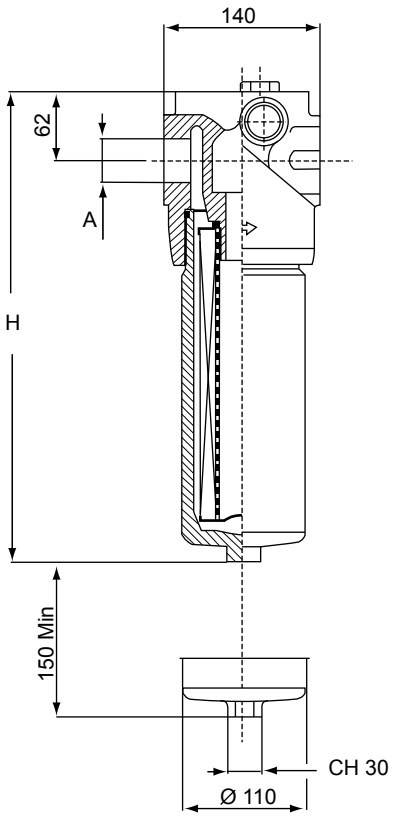
High Pressure In-Line Filter Housings ***No Element - Refer Table Next Page

Stock No.	Description	Max. Flow Rate	Port Size	Bypass Setting	Max. Pressure		List Price
HPM621*NR	High Pressure Filter	420 LPM	1” BSPP	6 BAR	420 BAR	6000 PSI	$ 797.00
HPM621*NR1	High Pressure Filter	420 LPM	1-1/4” BSPP	6 BAR	420 BAR	6000 PSI	$ 797.00
HPM622*NR1	High Pressure Filter	420 LPM	1-1/4” BSPP	6 BAR	420 BAR	6000 PSI	$ 879.00
HPM622*NR2	High Pressure Filter	420 LPM	1-1/2” BSPP	6 BAR	420 BAR	6000 PSI	$ 879.00
HPM623*NR2	High Pressure Filter	420 LPM	1-1/2” BSPP	6 BAR	420 BAR	6000 PSI	$ 992.00
HPM624*NR12	High Pressure Filter	420 LPM	1-1/4” BSPP	6 BAR	420 BAR	6000 PSI	$ 1510.00

Code	A	H
HPM621	Refer Port Sizes Above	273
HPM622		393
HPM623		533
HPM624		673







HPM High Pressure Filters

High Pressure Filter Elements

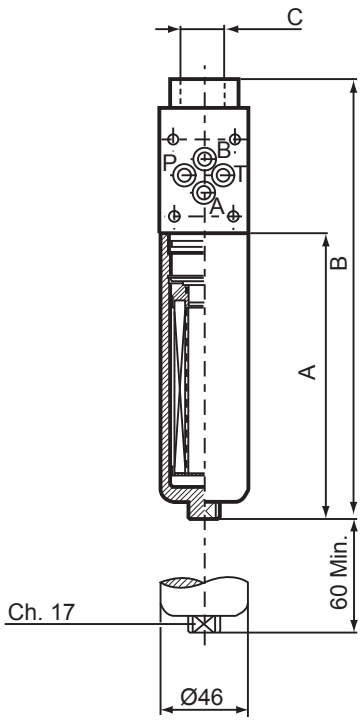
Stock No.	Description	Micron Rating	Fits Filter Head	Δ p	List Price
CHP621GXN	High Pressure Filter Element	10 Micron	HPM621****	20 BAR	$ 150.00
CHP621HXN		25 Micron			$ 150.00
CHP621NXN		6 Micron			$ 176.00
CHP621FYN		3 Micron		210 BAR	$ 475.00
CHP621GYN		10 Micron			$ 412.00
CHP621HYN		25 Micron			$ 440.00
CHP621NYN		6 Micron			$ 475.00
CHP622FXN	High Pressure Filter Element	3 Micron	HPM622****	20 BAR	$ 284.00
CHP622GXN		10 Micron			$ 243.00
CHP622HXN		25 Micron			$ 206.00
CHP622NXN		6 Micron			$ 285.00
CHP622FYN		3 Micron		210 BAR	$ 585.00
CHP622GYN		10 Micron			$ 519.00
CHP622HYN		25 Micron			$ 424.00
CHP622NYN		6 Micron			$ 585.00
CHP623FXN	High Pressure Filter Element	3 Micron	HPM623****	20 BAR	$ 420.00
CHP623GXN		10 Micron			$ 357.00
CHP623HXN		25 Micron			$ 304.00
CHP623NXN		6 Micron			$ 322.00
CHP623FYN		3 Micron		210 BAR	$ 791.00
CHP623GYN		10 Micron			$ 645.00
CHP623HYN		25 Micron			$ 548.00
CHP623NYN		6 Micron			$ 791.00
CHP624FXN	High Pressure Filter Element	3 Micron	HPM624****	20 BAR	$ 567.00
CHP624GXN		10 Micron			$ 483.00
CHP624HXN		25 Micron			$ 407.00
CHP624NXN		6 Micron			$ 565.00
CHP624FYN		3 Micron		210 BAR	$ 1166.00
CHP624GYN		10 Micron			$ 972.00
CHP624HYN		25 Micron			$ 773.00
CHP624NYN		6 Micron			$ 1163.00

HPB Cetop Sandwich Pressure Filters

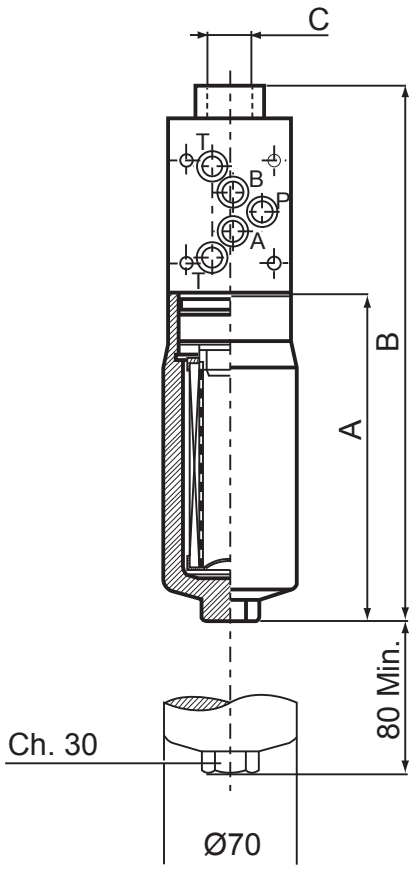
Cetop Sandwich Mount High Pressure In-Line Filters

Stock No.	Description	Cetop Valve	Micron Rating	Bypass Setting	Max. Pressure		List Price
HPB061GYN	Sandwich Mount Pressure Filter	Cetop 3	10 Micron	None	315 BAR	4500 PSI	$ 696.00
HPB282GYN	Sandwich Mount Pressure Filter	Cetop 5	10 Micron	None	315 BAR	4500 PSI	$ 919.00

Head with connection CETOP 03



Head with connection CETOP 05



Code	HPB061	HPB282
Connection	Cetop 3	Cetop 5
A	150	172
B	231.5	281.5
C	M20 x 1.5	

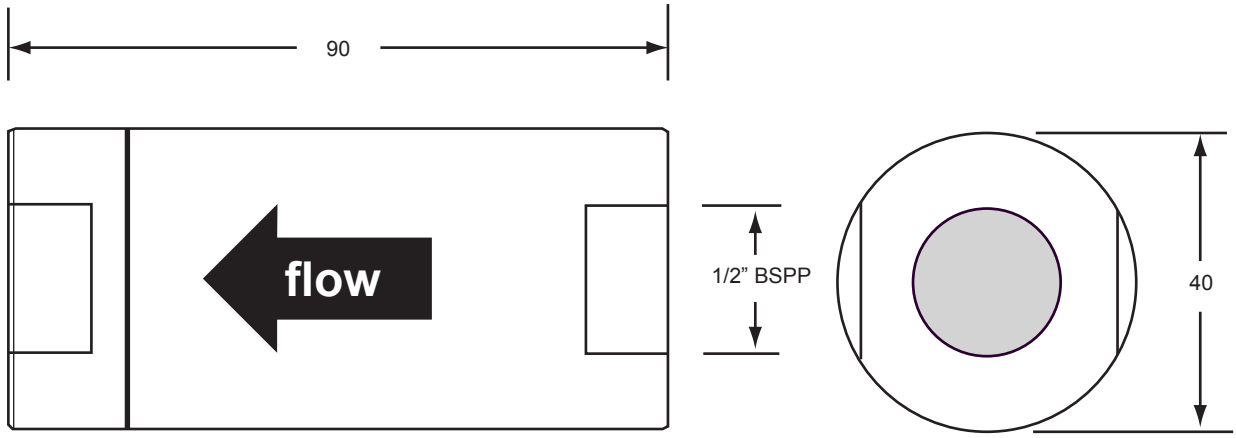
High Pressure Replacement Filter Elements

Stock No.	Description	Micron Rating	Fits Filter Head	Cartridge Δ p	List Price
CHP061GYN	High Pressure Replacement Filter Element	10 Micron	HPB061***	210 BAR	$ 223.00
CHP282GYN	High Pressure Replacement Filter Element	10 Micron	HPB282***	210 BAR	$ 245.00

RIL In-Line Pressure Filters

In-Line Pressure Filter Assemblies

Stock No.	Description	Port Size	Micron Rating	Max. Flow Rate	Maximum Working Pressure		List Price
924001211	Filter Assembly (Reversible)	1/2” BSPP	10 Micron	10 LPM	350 BAR	5000 PSI	$ 107.00
924001226	Filter Assembly (Reversible)	1/2” BSPP	25 Micron	25 LPM	350 BAR	5000 PSI	$ 107.00
924001241	Filter Assembly (Reversible)	1/2” BSPP	40 Micron	40 LPM	350 BAR	5000 PSI	$ 107.00
924001261	Filter Assembly (Reversible)	1/2” BSPP	60 Micron	60 LPM	350 BAR	5000 PSI	$ 107.00



Replacement Filter Elements

Stock No.	Description	Micron Rating	Fits Filter Head	Max. Pressure	List Price
139010000	Replacement Filter Element	10 Micron	9240012**	350 BAR	$ 77.00
139010011	Replacement Filter Element	25 Micron	9240012**	350 BAR	$ 66.00
139010012	Replacement Filter Element	40 Micron	9240012**	350 BAR	$ 53.00
139010013	Replacement Filter Element	60 Micron	9240012**	350 BAR	$ 77.00

The Ognibene In-Line filters have been developed to obtain a high performance of filtration, added to a low cost, in order to allow the utilisation on the pressure line, after the pump, in small hydraulic systems. By using this type of filter directly on the pump’s exit, the particles (for example: 25 microns and larger for type IL 12/25), sucked and produced by the pump, are removed before damage to the valves and the rest of the system.

This is the difference between our In-Line filter and usual return filters, which, on the contrary, allow dirt in the oil and pump wear to damage the valving system before being filtered.

The In-Line filters are made of aluminium with galvanic covering and have a filtering internal sintered element, placed with a spring.

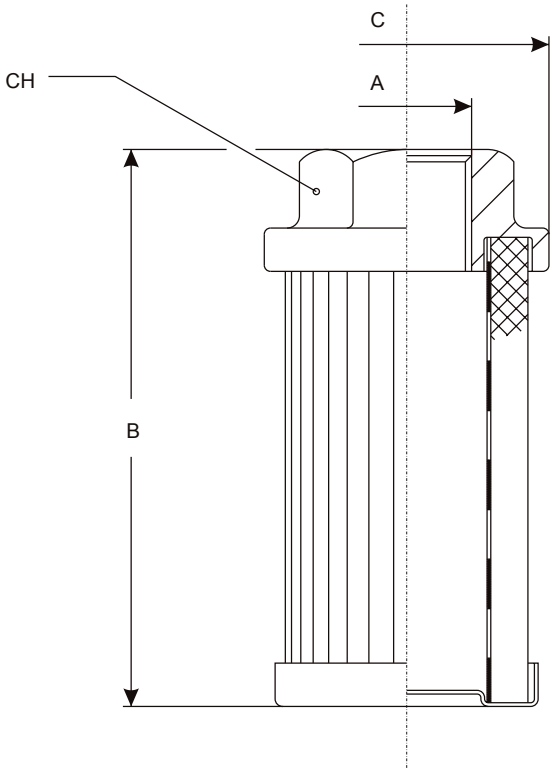
The standard element of filtration is of 25 microns and can be easily cleaned with washing in solvent and blowing from the inside towards the outside using compressed air. Alternative elements can be furnished with 60, 40 or 10 microns.

The In-Line filters are used in hydraulic circuits, (where there are already traditional filters) as a SUPER FILTER for protection on the pressure lines, before the entry in the directional valves; pressure regulators; flow regulators and any other valves which require a high level of filtration and protection from contamination.

SF Suction Strainers

125 Micron Brass Suction Strainers

Stock No.	Description	Max. Flow Rate	A BSPP	B	C	CH	List Price
SF46A-38GO	Suction Strainer	12 LPM	3/8”	90	46	30	$ 32.00
SF46B-12GO	Suction Strainer	15 LPM	1/2”	105	46	30	$ 32.00
SF64A-34GO	Suction Strainer	25 LPM	3/4”	109	64	36	$ 37.00
SF64B-100GO	Suction Strainer	50 LPM	1”	139	64	46	$ 39.00
SF86A-114GO	Suction Strainer	65 LPM	1-1/4”	139	86	60	$ 54.00
SF86B-112GO	Suction Strainer	140 LPM	1-1/2”	200	86	60	$ 53.00
SF86C-200GO	Suction Strainer	230 LPM	2”	260	86	70	$ 70.00
SF150A-200GO	Suction Strainer	220 LPM	2”	151	150	70	$ 116.00
SF150B-212GO	Suction Strainer	300 LPM	2-1/2”	211	150	90	$ 140.00
SF150C-300GO	Suction Strainer	400 LPM	3”	272	150	100	$ 170.00



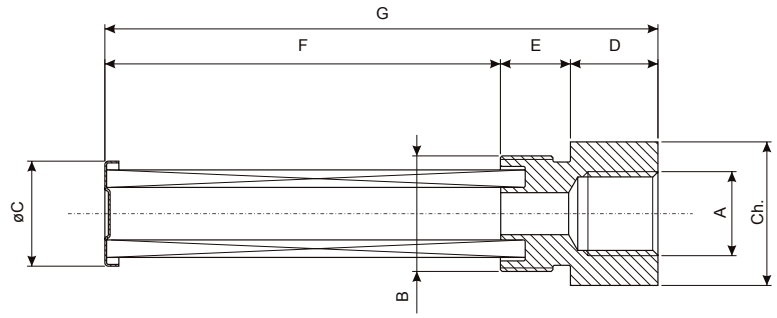
125 Micron Brass Suction Strainers with In-Built Bypass

Stock No.	Description	Max. Flow Rate	A BSPP	B	C	CH	List Price
SF46A-38GOV	Suction Strainer with Bypass	12 LPM	3/8”	90	46	30	$43.00
SF46B-12GOV	Suction Strainer with Bypass	15 LPM	1/2”	105	46	30	$ 43.00
SF64A-34GOV	Suction Strainer with Bypass	25 LPM	3/4”	109	64	36	$ 45.00
SF64B-100GOV	Suction Strainer with Bypass	50 LPM	1”	139	64	46	$ 55.00
SF86A-114GOV	Suction Strainer with Bypass	65 LPM	1-1/4”	139	86	60	$ 67.00
SF86B-112GOV	Suction Strainer with Bypass	140 LPM	1-1/2”	200	86	60	$ 81.00
SF86C-200GOV	Suction Strainer with Bypass	230 LPM	2”	260	86	70	$ 91.00
SF150A-200GOV	Suction Strainer with Bypass	220 LPM	2”	151	150	70	$ 129.00
SF150B-212GOV	Suction Strainer with Bypass	300 LPM	2-1/2”	211	150	90	$ 140.00
SF150C-300GOV	Suction Strainer with Bypass	400 LPM	3”	272	150	100	$ 196.00

OMT Suction Strainers

Log-Splitter Suction Strainer

Stock No.	Description	Max. Flow Rate	A BSPP	B	C	D	E	F	G	CH	List Price
OMT03912	Suction Strainer	40 lpm	3/4”	1”	30	29	16	120	165	40	$ 32.00



SD Diffusers

Diffusers

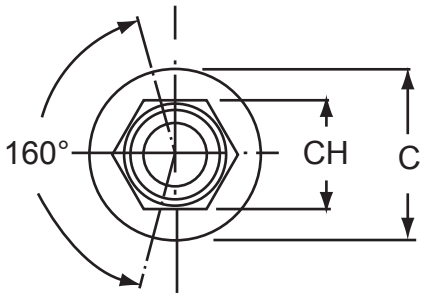
Stock No.	Description	A BSPP	B	C	CH	List Price
SD64A-34G	Diffuser	3/4”	109	64	35	$ 39.00
SD64B-100G	Diffuser	1”	139	64	46	$ 44.00
SD86A-114G	Diffuser	1-1/4”	139	86	60	$ 63.00
SD86B-112G	Diffuser	1-1/2”	200	86	60	$ 68.00
SD86C-200G	Diffuser	2”	260	86	70	$ 70.00
SD150A-212G	Diffuser	2-1/2”	211	150	90	$ 117.00
SD150B-300G	Diffuser	3”	272	150	100	$ 161.00

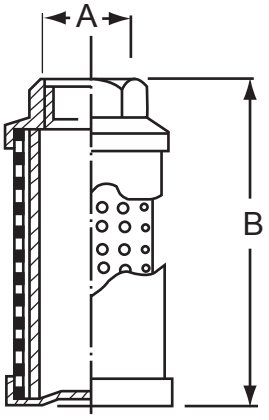
SD Series Diffusers

SD Series diffusers consist of an assembly of two concentric steel tubes with inter-spaced holes to produce a progressive reduction in oil velocity thus minimising noise, turbulence and foaming of return fluid to a reservoir.

Technical Data

- Maximum working pressure = 20 bar
- Working temperature from -25°C to + 110°C
- Connection in BSP
- Head in aluminium alloy UNI 5076
- Internal pipe in steel
- Assembly in resin



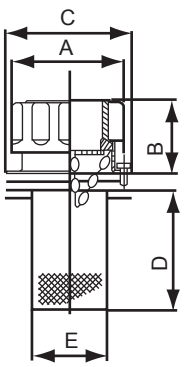


TR Oil Fillers ~ Air Breathers

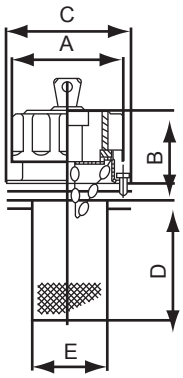
Oil Filler / Air Breathers

Stock No.	Description	Air Filter		Dimensions (mm)						Fixing Holes	List Price
		Micron	Mtr3/ min	A	B	C	D	E	F		
TR1	Oil Filler/Air Breather - Small	40	0.250	47	34	52	65	27	41	3	$ 30.00
TR2	Oil Filler/Air Breather	40	0.700	75	50	83	80	50	73	6	$ 36.00
TR2D	Oil Filler/Air Breather - Steel Basket	40	0.700	75	50	83	80	50	73	6	$ 45.00
TR2L	Oil Filler/Air Breather - Pad Lockable	40	0.700	75	50	83	80	50	73	6	$ 46.00
TRC2	Oil Filler/Air Breather - Key Lockable	40	0.700	75	50	83	80	50	73	6	$ 85.00
TRV2	Oil Filler/Air Breather - Pressurised	40	0.700	75	50	83	80	50	73	6	$ 90.00
TRV2D	Oil Filler/Air Breather - Pressurised - Steel	40	0.700	75	50	83	80	50	73	6	$ 90.00
PTTR2	Oil Filler/Air Breather - Angle Mount	40	0.700	75	50	83	80	50	73	6	$ 84.00

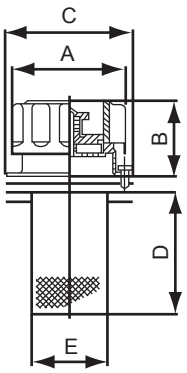
TR1 / TR2

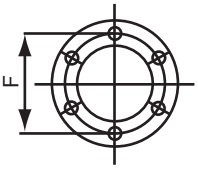


TRC2

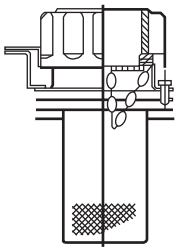


TRV2





TR2L

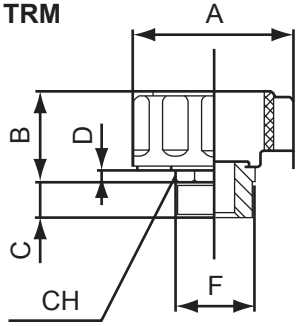


TRM Air Breathers

Air Breathers

Stock No.	Description	Air Filter		Dimensions (mm)						List Price
		Micron	Mtr3/ min	A	B	C	D	CH	F	
TRM118	Air Breather 1/8” Screw in Type	40	0.250	47	33	12	7	19	1/8” BSPP	$ 16.00
TRM114	Air Breather 1/4” Screw in Type	40	0.250	47	33	12	7	19	1/4” BSPP	$ 14.00
TRM138	Air Breather 3/8” Screw in Type	40	0.250	47	33	12	7	19	3/8” BSPP	$ 16.00
TRM112	Air Breather 1/2” Screw in Type	40	0.250	47	33	12	7	19	1/2” BSPP	$ 16.00
TRM234	Air Breather 3/4” Screw in Type	40	0.700	80	54	16	8	32	3/4” BSPP	$ 20.00
TRM2100	Air Breather 1” Screw in Type	40	0.700	80	54	16	8	32	1” BSPP	$ 21.00

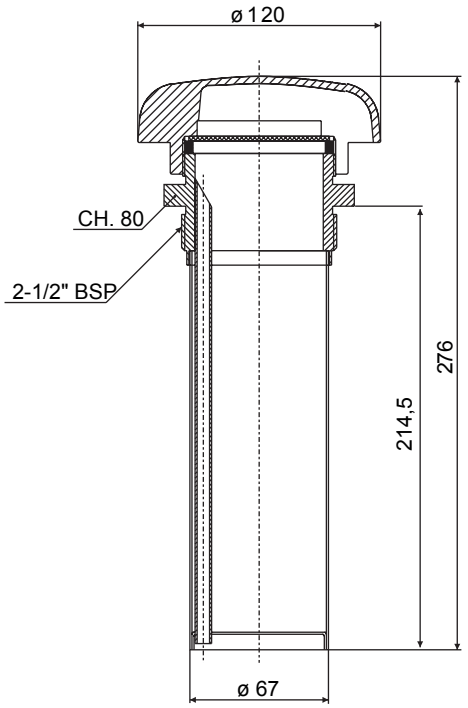
TRM



TA Oil Fillers ~ Air Breathers

Oil Filler with Air Breather in Sintered Brass

Stock No.	Description	List Price
TA212G	Oil Filler / Air Breather in Sintered Brass	$ 368.00

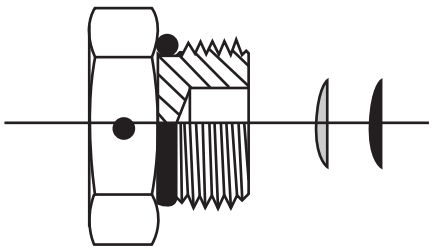


Technical Data

Body: Galvanised Steel
Breather: Aluminium Alloy
Seals: Buna-N 75 sh
Air Filler: Sintered Brass
Basket: 200 micron is steel mesh

PM-BHF Cylinder Port Breathers

Stock No.	Description	Thread Size	List Price
PMBHF3	Cylinder Port Aluminium Breather Plug	1/2” NPT	$ 40.00
PMBHF4	Cylinder Port Aluminium Breather Plug	3/8” NPT	$ 40.00
PMBHF5	Cylinder Port Aluminium Breather Plug	7/8” UN O’Ring	$ 40.00
PMBHF6	Cylinder Port Aluminium Breather Plug	3/4” UN O’Ring	$ 40.00
PMBHF8	Cylinder Port Aluminium Breather Plug	1/4” NPT	$ 40.00

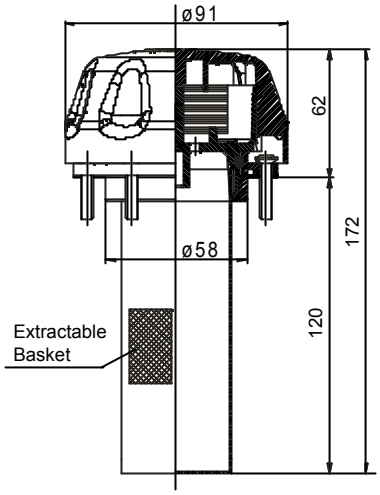


TP Oil Fillers ~ Air Breathers

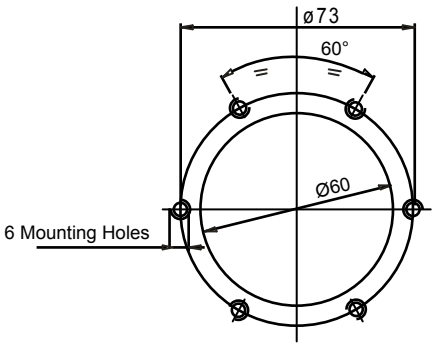
Oil Filler with Air Breather - Nylon

Stock No.	Description	List Price
TPA2D	Oil Filler Breather - Nylon	$ 36.00
TPB2D	Oil Filler Breather - Nylon	$ 36.00

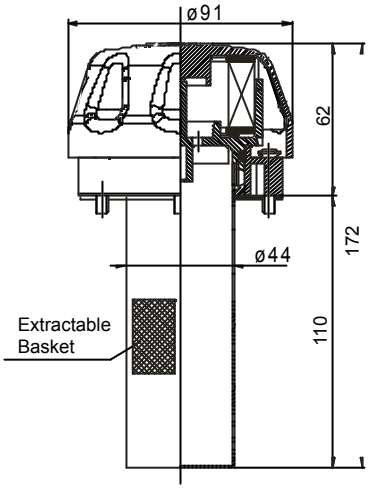
TPA2D



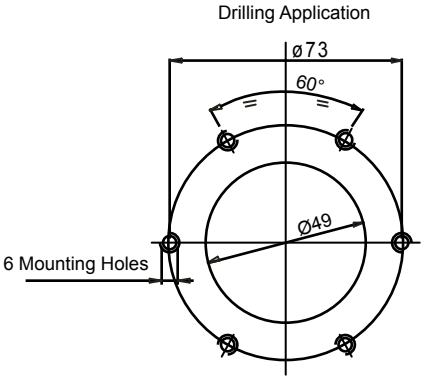
Drilling Application



TPB2D



Drilling Application



Technical Data

Material: Nylon
Seals: Buna-N
Screws: Plated
Basket: Steel

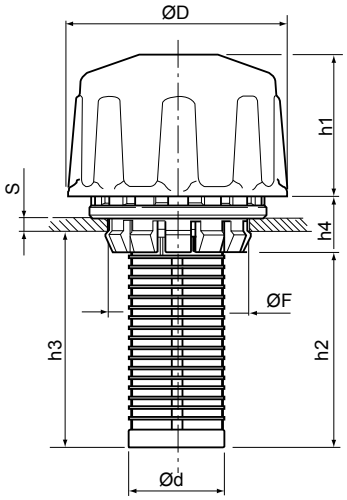
CT Oil Fillers ~ Air Breathers

Oil Filler with Air Breather - Polyamide 66

Stock No.	Description	List Price
CTRC	Oil Filler / Breather - Push Fit 55mm	$ 34.00

Technical Details

Filler breather with strainer basket for tank-top installation. Assembly contains 3 parts:
Top Cap with breather made from Polyamide 66, black colour.
Contained in the cap is the filter made out of Polyurethane, with a Micron rating of 50 microns. The cap has an internal thread and screws onto the main body, located in the tank.
Main Body manufactured from technopolymer black contains threaded locking ring and inside locking ring. The main body is placed in a pre-drilled hole (55mm min., max. 55.3mm diameter) in the top of the reservoir.
The wall thickness must not exceed 8mm and not be less than 2mm.
With this filler breather drilling and tapping of mounting holes is not needed.
A safety chain is available, which connects the cap to the body, preventing misplacement of cap when removed.
Strainer Basket material: Polypropilene, coloured black, max operating temperature 80-90°C (176-194 F).
Seal between tank and main body - O-ring 70 shore.
Airflow capacity at a pressure of 50 mbar (0.73 psi) = 300 litres/minute.



Code	D	h1	h2	h3	h4	d	ØF	S
CTRC	88	55	80	88	21	38	55	2-8mm
Dimensions in mm.								

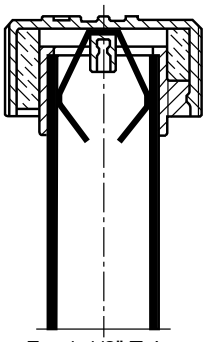
NY Oil Fillers ~ Air Breathers

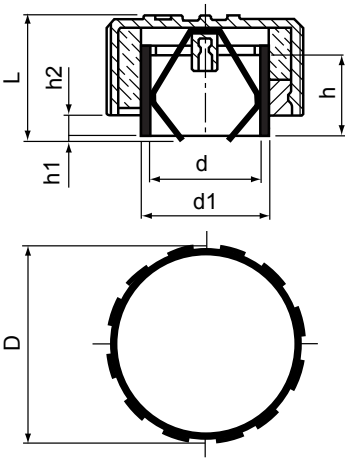
Oil Filler with Air Breather - Push On

Stock No.	Description	List Price
NYP024	Push On Breather	$ 15.00

Technical Details

Thermoplastic Polymide 66 material.
Maximum operating temperature 100°C.
Compatible with petroleum based fluids, gasoline, grease.
Spring steel plated clip.
10 or 40 micron polyurethane elements.
Maximum outside diameter 39mm.
Optional dipstick available.



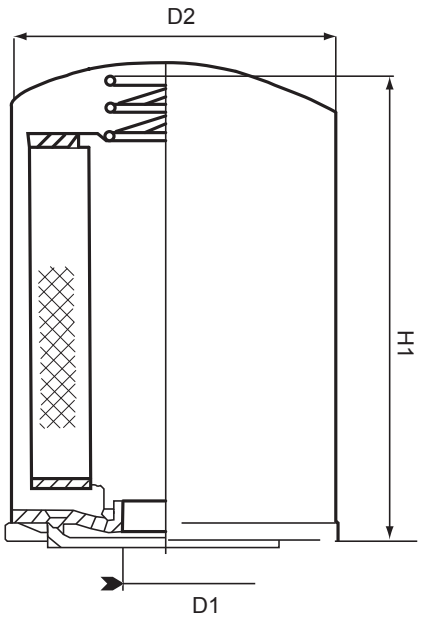


Code	d	h	D	L	d1	h1	h2	Weight
NYP024	39	28	70	48	45	3	7	67gm
Dimensions in mm.								

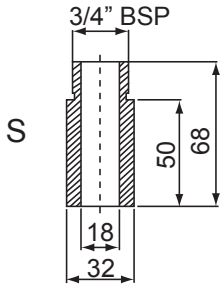
CSA Air Filters

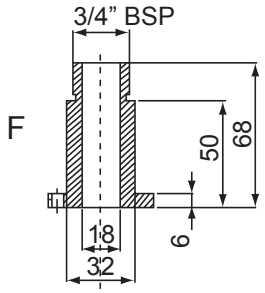
Air Filter / Filler

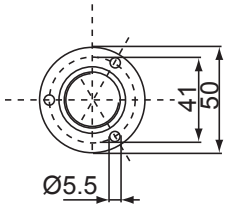
Stock No.	Description	Air Filter		Dimensions (mm)			Fixing Holes	List Price
		Micron	Mtr3/min	D1	D2	H1		
CSA05AF	Air Filter on Flange	10 Micron	0.250	3/4" BSPP	98	145	3	$ 95.00
CSA05AS	Air Filter on Stem	10 Micron	0.250	3/4" BSPP	98	145	-	$ 74.00
CSA10AF	Air Filter on Flange	10 Micron	0.700	1-1/4" BSPP	132	180	6	$ 159.00
CSA10AS	Air Filter on Stem	10 Micron	0.700	1-1/4" BSPP	132	180	-	$ 110.00



For CSA05

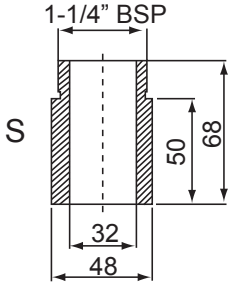


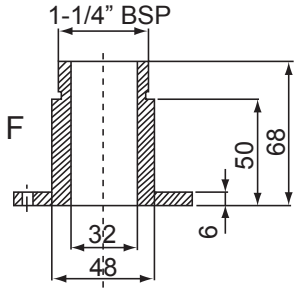


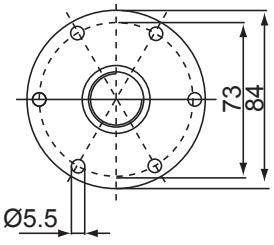


TR1

For CSA10







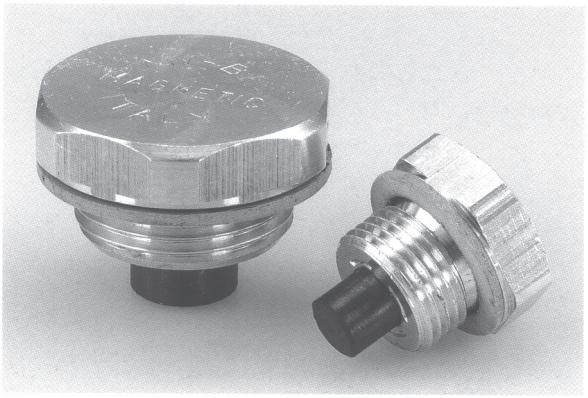
TR2

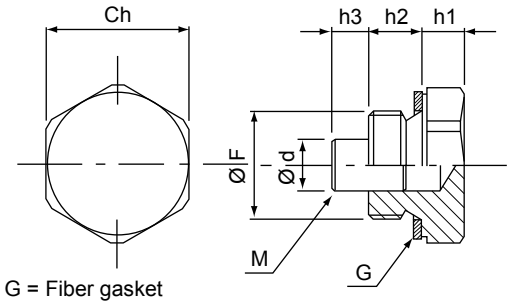
Aluminium Drain Plugs with Magnet

TMA - Aluminium Drain Plug with Magnet

Hex plug manufactured from 11S Aluminium, complete with asbestos free flat seal. The plug has a pressed-in cylindrical magnet.

Stock No.	Dimensions						List Price
	F	Ch	d	h1	h2	h3	
TMA14	G 1/4”	18	5	7	10	6	$ 6.00
TMA38	G 3/8”	22	8	7	10	7	$ 8.00
TMA12	G 1/2”	27	10	8	10	7	$ 8.00
TMA34	G 3/4”	34	13	8	10	7	$ 13.00
TMA1	G 1”	40	13	8	14	7	$ 17.00





G = Fiber gasket
M = Magnet

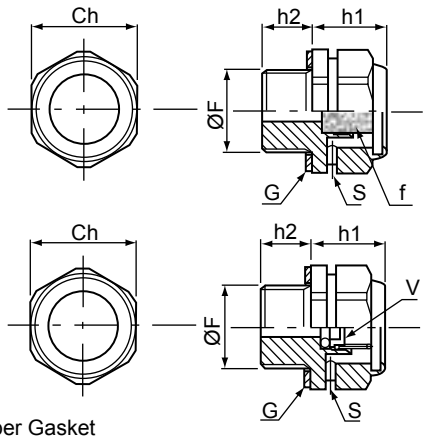
Metal Filler ~ Breather

KMV Metal Filler/Breather c/w Vent Valve

Stock No.	Dimensions mm				List Price
	F	Ch	h1	h2	
KMV14	G 1/4”	18	18	9	$ 14.00
KMV38	G 3/8”	22	22	10	$ 14.00
KMV12	G 1/2”	27	27	10	$ 16.00

Technical Details

Threaded metal breather made from brass.
Asbestos-free flat seal
Filtration to 50 micron
.20 - .25 bar cracking pressure

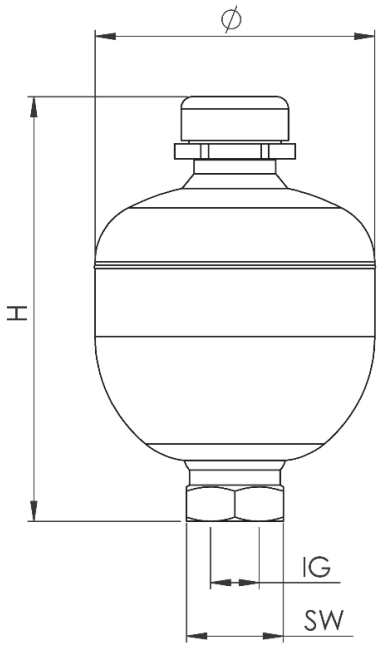


G = Fiber Gasket
S = Breather holes
F = Air filter
V = One-way check valve

MBSP Diaphragm Accumulator

MBSP Diaphragm Accumulator - M28 x 1.5

Stock No.	Description	Port Size	Pressure	H mm	Dia mm	List Price
0501315013611	MBSP Accumulator 0.50 LTR	G 1/2”	210 BAR	159	107	$ 230.00
0751315043611	MBSP Accumulator 0.75 LTR	G 1/2”	210 BAR	169	122	$ 253.00
1001315083611	MBSP Accumulator 1.00 LTR	G 1/2”	210 BAR	181	136	$ 380.00
1401315112611	MBSP Accumulator 1.40 LTR	G 1/2”	250 BAR	191	147	$ 393.00
2001315142611	MBSP Accumulator 2.00 LTR	G 3/4”	250 BAR	255	156	$ 633.00



Section 13
Gauges & Accessories

MAKE	MODEL	PAGE
Fimet	MAR Pressure Gauges	13.02
Fimet	MAF Pressure Gauges	13.03
OMT	OMTI Filter Indicators	13.04
FT Tognella	FT299 Gauge Adaptors	13.05
FT Tognella	FT29* Gauge Isolators	13.06
Miselli	Level Sight Glasses	13.07
Miselli	XL Level Gauges	13.08
OMT	LT Level Gauges	13.09
OMT	Electric Level Gauges	13.10
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LAYHER	600 Pressure Switches	13.12
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Fimet	SPT Pressure Transducers	13.14

MAKE	MODEL	PAGE

MAR Pressure Gauges

63mm Glycerine Filled - Bottom Entry Dual Scale

Stock No.	Description	Face Dia.	Connection	Pressure Scales		List Price
MAR63001	Pressure Gauge	63mm	1/4” BSPP	0-1 BAR	0-14 PSI	$ 53.00
MAR63004	Pressure Gauge	63mm	1/4” BSPP	0-4 BAR	0-58 PSI	$ 53.00
MAR63010	Pressure Gauge	63mm	1/4” BSPP	0-10 BAR	0-145 PSI	$ 53.00
MAR63025	Pressure Gauge	63mm	1/4” BSPP	0-25 BAR	0-360 PSI	$ 53.00
MAR63040	Pressure Gauge	63mm	1/4” BSPP	0-40 BAR	0-560 PSI	$ 53.00
MAR63060	Pressure Gauge	63mm	1/4” BSPP	0-60 BAR	0-870 PSI	$ 53.00
MAR63100	Pressure Gauge	63mm	1/4” BSPP	0-100 BAR	0-1450 PSI	$ 53.00
MAR63160	Pressure Gauge	63mm	1/4” BSPP	0-160 BAR	0-2300 PSI	$ 53.00
MAR63250	Pressure Gauge	63mm	1/4” BSPP	0-250 BAR	0-3600 PSI	$ 53.00
MAR63315	Pressure Gauge	63mm	1/4” BSPP	0-315 BAR	0-4570 PSI	$ 53.00
MAR63400	Pressure Gauge	63mm	1/4” BSPP	0-400 BAR	0-5700 PSI	$ 53.00
MAR63600	Pressure Gauge	63mm	1/4” BSPP	0-600 BAR	0-8700 PSI	$ 53.00
MAR631000	Pressure Gauge	63mm	1/4” BSPP	0-1000 BAR	0-14500 PSI	$ 85.00

Glycerine filled pressure gauge 63mm Ø bottom entry.
Case: Stainless steel
Ring: Stainless Steel
Window: Vedril
Sensing Element: Copper alloy bourdon tube
Connection: Brass bottom 1/4” BSPP with spigot
Welding: Tin alloy
Working Temperature: -10°C to +80°C
Amplifying Movement: Brass for precision clockwork
Damping Element: Glycerine 98%

100mm Glycerine Filled - Bottom Entry Dual Scale

Stock No.	Description	Face Dia.	Connection	Pressure Scales		List Price
MAR100010	Pressure Gauge	100mm	1/2” BSPP	0-10 BAR	0-145 PSI	$ 132.00
MAR100025	Pressure Gauge	100mm	1/2” BSPP	0-25 BAR	0-360 PSI	$ 132.00
MAR100060	Pressure Gauge	100mm	1/2” BSPP	0-60 BAR	0-870 PSI	$ 132.00
MAR100100	Pressure Gauge	100mm	1/2” BSPP	0-100 BAR	0-1450 PSI	$ 132.00
MAR100160	Pressure Gauge	100mm	1/2” BSPP	0-160 BAR	0-2300 PSI	$ 132.00
MAR100250	Pressure Gauge	100mm	1/2” BSPP	0-250 BAR	0-3600 PSI	$ 132.00
MAR100315	Pressure Gauge	100mm	1/2” BSPP	0-315 BAR	0-4570 PSI	$ 132.00
MAR100400	Pressure Gauge	100mm	1/2” BSPP	0-400 BAR	0-5700 PSI	$ 132.00
MAR100600	Pressure Gauge	100mm	1/2” BSPP	0-600 BAR	0-8700 PSI	$ 132.00

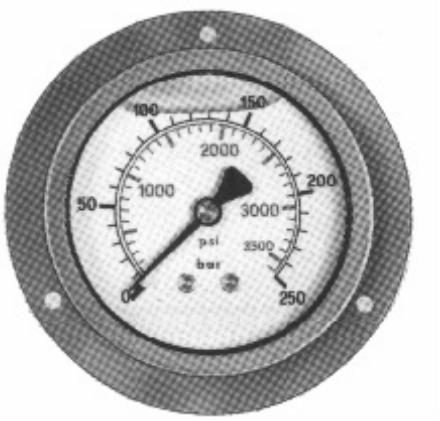
Glycerine filled pressure gauge 100mm Ø bottom entry.
Case: Stainless steel
Ring: Stainless Steel
Window: Vedril
Protection: IP 55
Sensing Element: Copper alloy bourdon tube
Connection: Brass bottom 1/2” BSPP
Dial: Aluminium
Pointer: Black aluminium
Welding: Tin alloy
Working Temperature: -10°C to +80°C
Amplifying Movement: Brass for precision clockwork
Damping Element: Glycerine 98%

MAF Pressure Gauges

63mm Glycerine Filled - Rear Entry Dual Scale

Stock No.	Description	Face Dia.	Connection	Pressure Scales		List Price
MAF63010	Pressure Gauge	63mm	1/4" BSPP	0-10 BAR	0-145 PSI	$ 66.00
MAF63025	Pressure Gauge	63mm	1/4" BSPP	0-25 BAR	0-360 PSI	$ 66.00
MAF63060	Pressure Gauge	63mm	1/4" BSPP	0-60 BAR	0-870 PSI	$ 66.00
MAF63100	Pressure Gauge	63mm	1/4" BSPP	0-100 BAR	0-1450 PSI	$ 66.00
MAF63160	Pressure Gauge	63mm	1/4" BSPP	0-160 BAR	0-2300 PSI	$ 66.00
MAF63250	Pressure Gauge	63mm	1/4" BSPP	0-250 BAR	0-3600 PSI	$ 66.00
MAF63315	Pressure Gauge	63mm	1/4" BSPP	0-315 BAR	0-4570 PSI	$ 66.00
MAF63400	Pressure Gauge	63mm	1/4" BSPP	0-400 BAR	0-5700 PSI	$ 66.00
MAF63600	Pressure Gauge	63mm	1/4" BSPP	0-600 BAR	0-8700 PSI	$ 66.00

Glycerine filled pressure gauge 63mm Ø back entry.
Case: Stainless steel
Ring: Stainless Steel
Window: Vedril
Sensing Element: Copper alloy bourdon tube
Connection: Brass bottom 1/4" BSPP with spigot
Welding: Tin alloy
Working Temperature: -10°C to +80°C
Amplifying Movement: Brass for precision clockwork
Damping Element: Glycerine 98%
Front Flange: Stainless steel with 3 holes for panel mounting



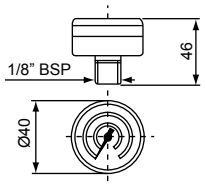
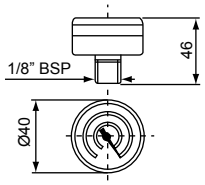
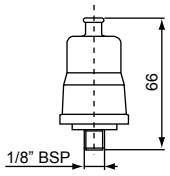
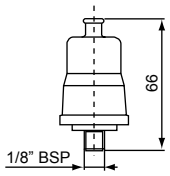
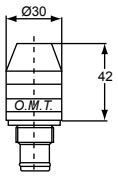
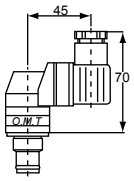
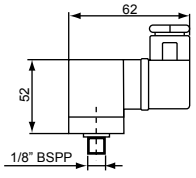
100mm Glycerine Filled - Rear Entry Dual Scale

Stock No.	Description	Face Dia.	Connection	Pressure Scales		List Price
MAF100010	Pressure Gauge	100mm	1/2" BSPP	0-10 BAR	0-145 PSI	$ 132.00
MAF100025	Pressure Gauge	100mm	1/2" BSPP	0-25 BAR	0-360 PSI	$ 132.00
MAF100060	Pressure Gauge	100mm	1/2" BSPP	0-60 BAR	0-870 PSI	$ 132.00
MAF100100	Pressure Gauge	100mm	1/2" BSPP	0-100 BAR	0-1450 PSI	$ 132.00
MAF100160	Pressure Gauge	100mm	1/2" BSPP	0-160 BAR	0-2300 PSI	$ 132.00
MAF100250	Pressure Gauge	100mm	1/2" BSPP	0-250 BAR	0-3600 PSI	$ 132.00
MAF100400	Pressure Gauge	100mm	1/2" BSPP	0-400 BAR	0-5700 PSI	$ 132.00
MAF100600	Pressure Gauge	100mm	1/2" BSPP	0-600 BAR	0-8700 PSI	$ 132.00

Glycerine filled pressure gauge 100mm Ø bottom entry.
Case: Stainless steel
Ring: Stainless Steel
Window: Vedril
Protection: IP 55
Sensing Element: Copper alloy bourdon tube
Connection: Brass bottom 1/2" BSPP
Dial: Aluminium
Pointer: Black aluminium
Welding: Tin alloy
Working Temperature: -10°C to +80°C
Amplifying Movement: Brass for precision clockwork
Damping Element: Glycerine 98%

OMTI Filter Indicators

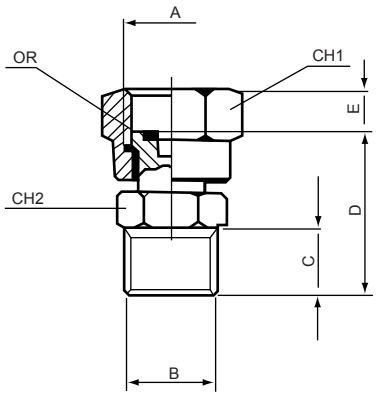
Filter Indicators

Stock No.	Description		Pressure Range	List Price
OMTI-B	Dry Pressure Gauge - Return Line		0-10 BAR	$ 35.00
OMTI-C	Dry Vacuum Gauge - Suction Line		0-76 cm Hg	$ 35.00
OMTI-D	Pressure Switch with N.O. Electrical Contacts		0-2 BAR	$ 115.00
OMTI-E	Pressure Switch with N.C. Electrical Contacts		0-2 BAR	$ 115.00
DV500	Visual Differential Indicator - High Pressure		5 BAR ± 0.2 bar	$ 145.00
DE500	Electrical Differential Indicator - High Pressure		5 BAR ± 0.2 bar	$ 189.00
OMTI-H	Membrane Pressure Switch		1.3 BAR ± 0.2 bar	$ 399.00

FT299 Gauge Adaptors

Gauge Adaptors

Stock No.	Description	Dimensions (mm)							List Price
		A	B	C	D	E	CH1	CH2	
FT29944	Male x Female Gauge Adaptor	1/4" BSPP	1/4" BSPT	12	27	9.5	18	17	$ 17.00
FT29942	Male x Female Gauge Adaptor	1/4" BSPP	1/2" BSPT	16	31	9.5	18	22	$ 21.00
FT29924	Male x Female Gauge Adaptor	1/2" BSPP	1/4" BSPT	12	31	11	27	22	$ 26.00
FT29922	Male x Female Gauge Adaptor	1/2" BSPP	1/2" BSPT	16	34	11	27	22	$ 36.00
FT29943	Male x Female Gauge Adaptor	1/4" BSPP	3/8" BSPT	15	31	11	19	19	$ 17.00



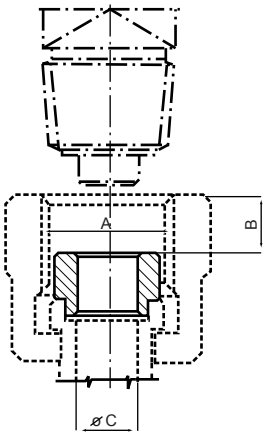
Gauge Adaptors

Connectors FT299 are a swivel fitting which allows correct orientation of a pressure gauge.
Sealing between the adaptor and gauge is by a static o-ring, pressure shocks are partially dampened by the in-built orifice.

Maximum working pressure is 400 BAR.

Copper Plug Gaskets

Stock No.	Description	Suits	Dimensions (mm)			List Price
			A	B	C	
FT120114	Copper Gasket	1/4" BSPT Gauge Stem	1/4" G	6.5	5.5	$ 6.00
FT120112	Copper Gasket	1/2" BSPT Gauge Stem	1/2" G	8	6.5	$ 7.00



Copper Plug Nuts

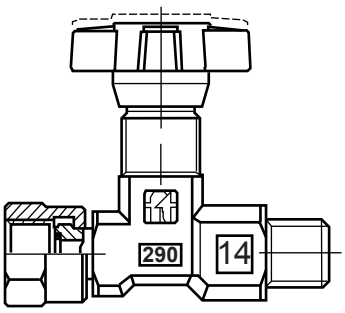
When fitting a tapered stem pressure gauge or nipple to:
a: Gauge Adaptor FT299
b: Gauge Isolators FT290 & FT291
Copper Plug Nuts FT1201 must be used in lieu of standard o-ring.

FT29* Gauge Isolators

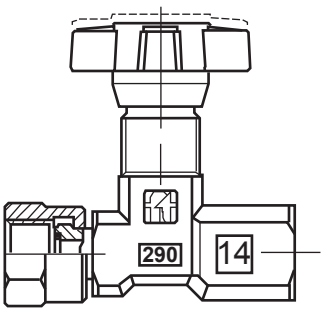
Gauge Isolators

Stock No.	Description	Threads	List Price
FT290	Gauge Isolator - Needle Valve	1/4” BSPT Female x 1/4” BSPT Male	$ 43.00
FT290-01	Gauge Isolator - Needle Valve	1/4” BSPT Female x 1/4” BSPT Female	$ 51.00
FT291	Gauge Isolator - Needle Valve	1/4” BSPT Female x 1/4” BSPT Male	$ 43.00
FT292	Gauge Isolator - Push Button (Lockable ‘ON’)	1/4” BSPT F/M x 1/4” BSPT F/M x 1/4” BSPT F/M	$ 110.00
FT292NL	Gauge Isolator - Push Button (Non-Lockable)	1/4” BSPT F/M x 1/4” BSPT F/M x 1/4” BSPT F/M	$ 110.00

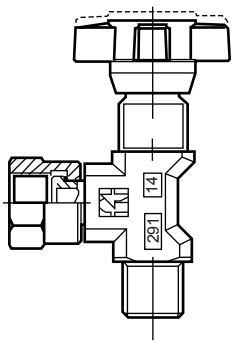
FT290



FT290-01



FT291



The FT290 (180° - in line) and FT291 isolator needle valves (90° - angle) are used to isolate and protect pressure gauges in a circuit from pressure surges and spikes normally present in hydraulic systems. The design of the needle valve eliminates the pressure shock to the gauge on opening by permitting only a gentle bleed of fluid into the gauge.

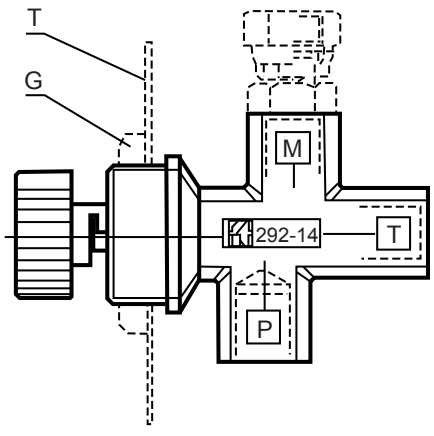
The swivel gauge connection with its unique sealing arrangement allows the gauge to be aligned to the optimum viewing position as well as providing a positive seal between the gauge stem base and the gauge isolator.

Primarily designed for parallel stemmed gauges, by substituting the o-ring seal in the base of the gauge pod with a copper ring (Series FT1201) the gauge adaptor can be just as effectively used with taper stem gauges.

This range of Gauge Isolators are manufactured from a press forged steel with a hardened steel spindle and plastic ‘easy grip’ hand knob. Sealing above the adjusting screw thread ensures both smooth adjustment operation from the lubricated thread as well as eliminating the susceptibility to seizing due to corrosion.

Working pressure to 400 BAR and temperature range from -20°C to +100°C.

FT292



Push Button Gauge Isolator Valves

FT292 Series push button gauge isolator valves are used to protect pressure gauges from the normal shocks associated with an operating hydraulic system. They provide a dampening of the shock to the gauge on opening and isolate the gauge from the hydraulic system when closed. At the same time the pressure gauge is drained to tank when the the gauge isolator is closed thus prolonging the life of the gauge by eliminating the trapped pressure that would normally maintain the gauge under stress with a normal shut-off valve type isolator.

A locking mechanism allows the gauge isolator to be ‘locked’ in the ‘on’ position by rotating the push button in the direction of the arrow on the knob (clockwise). This then gives a continual display of the circuit pressure.

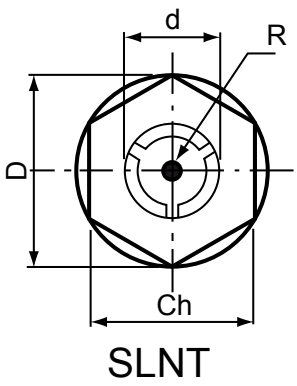
They may be used for working pressure up to 400 BAR.

Level Sight Glasses

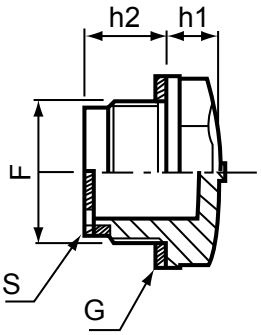
SLNT - Level Sight Glasses with Contrast Screen

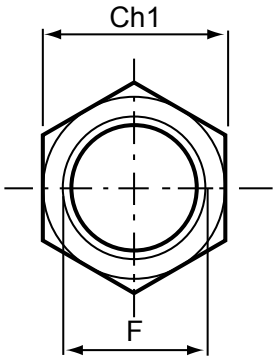
Threaded oil level indicators, hex head with shoulder, made from high density, transparent polyamide resin with a 'hot painted' red point in the centre and a contrast screen for clear indication of oil levels. Maximum pressure 3 bar (43 PSI).

Stock No.	Dimensions								List Price
	Ch	F	D	d	h1	h2	Nm	Ch1	
SLNS14	17	G 1/4"	20	15	7	8	6		$ 10.00
SLNT38	18	G 3/8"	22	14	6.5	10.5	8	19	$ 10.00
SLNT12	24	G 1/2"	28	16	8	11	12	27	$ 10.00
SLNT34	30	G 3/4"	35	21	8	12	16	32	$ 10.00
SLNT1	35	G 1"	43	32	11	12	n.d.	36	$ 10.00
SLNT114	42	G 1-1/4"	51	33	10	16	n.d.	46	$ 15.00
SLNT112	50	G 1-1/2"	58	40	10	20	n.d.		$ 15.00
SLNT2	64	G 2"	74	48	12	20	n.d.		$ 20.00



SLNT





GF

R = Red Indicator Point

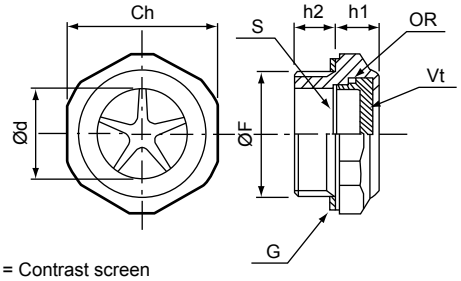
S = Contrast Screen

G = Fiber Gasket

SM - Aluminium Level Indicators

Threaded hex head level indicators manufactured from aluminium 11S with a transparent polyamide resin sight glass. Maximum pressure 10 bar (145 PSI).

Stock No.	Dimensions					List Price
	F	Ch	d	h1	h2	
SM14	G 1/4"	18	11	10	7	$ 9.00
SM38	G 3/8"	22	12	8	9	$ 11.00
SM12	G 1/2"	27	15	8	9	$ 12.00
SM34	G 3/4"	34	19	9	11	$ 14.00
SM1	G 1"	40	27	10.5	11	$ 17.00

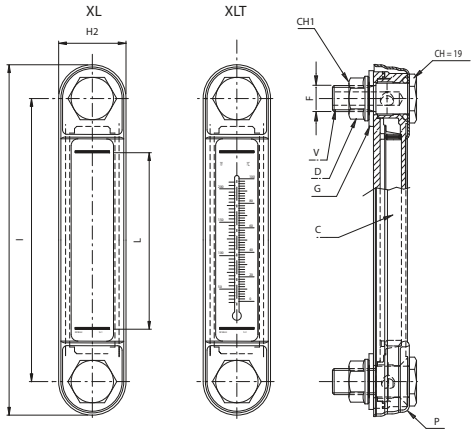


S = Contrast screen
Vt = Transparent disc
G = Fiber gasket

XL Level Gauges

Reservoir Level Gauges - Steel Body

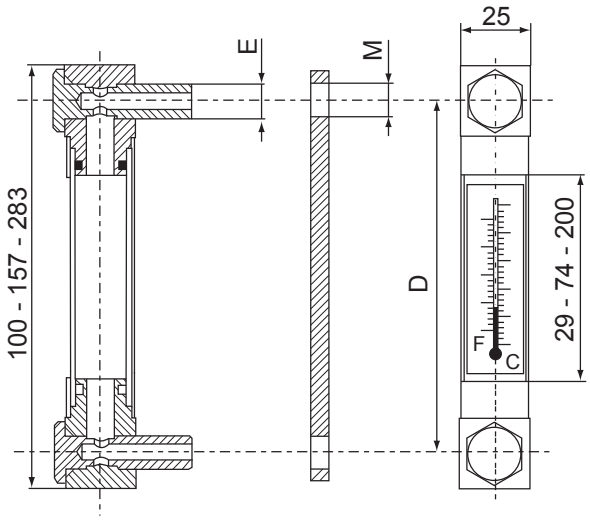
Stock No.	Description	Dimensions (mm)									List Price
		I	H1	H2	F	E	A	L	CH1	ØF1	
XL03M10	Level Gauge - 76mm	76	107	31	M10	17	24.5	39	15	10.2	$ 27.00
XL03M12	Level Gauge - 76mm	76	107	31	M12	17	24.5	39	18	12.2	$ 27.00
XL03TM10	Level and Temperature Gauge - 76mm	76	107	31	M10	17	24.5	39	15	10.2	$ 29.00
XL05M12	Level Gauge - 127mm	127	156	31	M12	17	24.5	80	18	12.2	$ 36.00
XL05TM12	Level and Temperature Gauge - 127mm	127	156	31	M12	17	24.5	80	18	12.2	$ 38.00
XL10M12	Level Gauge - 254mm	254	286	34	M12	17	33	178	18	12.2	$ 54.00
XL10TM12	Level and Temperature Gauge - 254mm	254	286	34	M12	17	33	178	18	12.2	$ 58.00



XL series visual level gauges with or without thermometer are made in steel and supplied with a Buna-N oil seal. They are fitted to the exterior of oil and fuel tanks.
A bulb thermometer is incorporated in the level gauge and Version 'T' permits to check the temperature of the fluid in the oil tank.
Materials
Steel body and 'trogamid' protection glass.
Galvanised steel fixing screw, Buna-N oil seal
Temperature Range
-20°C to +80°C
Maximum Working Range
2 bar
Torque Bolt Tightening
20 Nm
Thermometer
Bulb incorporated in the level gauge

Reservoir Level Gauges - Nylon Body

Stock No.	Description	Dimensions		M		List Price
		D	E	Ø min	Ø max	
LV3	Level Gauge - 254mm	254	M12	12.5	13	$ 67.00
LV3T	Level and Temperature Gauge - 254mm	254	M12	12.5	13	$ 75.00



LV series visual level gauges permit direct verification of the fluid level contained in the tank.
Distance 'D' stated in the above table, indicates the distance of the fixing holes whose diameter is 'M'.
The design allows for an error of up to 4mm, on the fixing hole centres during assembly; a new nylon black cover coating the level gauge entirely.
These level gauges can be used with mineral oils and various fluids.
Materials
Heads: glass reinforced nylon
Transparent: 'Perbex'
Bolts: Galvanised steel
Nuts: Galvanised steel
Outside Body: Glass reinforced nylon
Temperature Range
From -20°C to +80°C
Maximum Pressure
1 bar
Torque Bolt Tightening
20 NM
Thermometer
Bulb type with double calibrated scale °C and °F
Thermometer Scale
0°C to +80°C (+32°F to +176°F)

LT Level Gauges

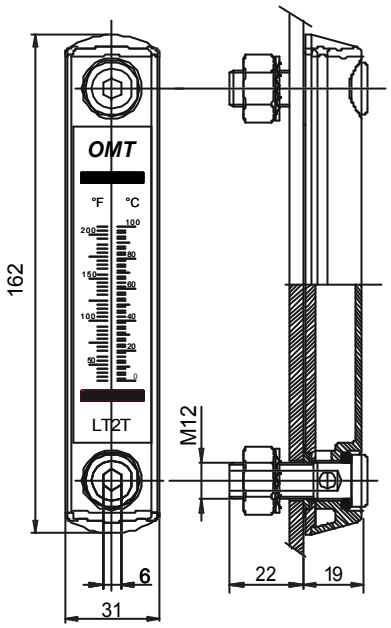
Reservoir Level Gauges - Polyamide

Stock No.	Description	List Price
LT2M12	Level Gauge - 127mm	$ 41.00
LT2PM12	Level Gauge complete with Cover - 127mm	$ 44.00
LT2TM12	Level and Temperature Gauge - 127mm	$ 41.00
LT2TPM12	Level and Temperature Gauge complete with Cover - 127mm	$ 44.00

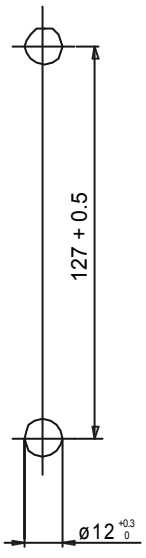
LT series visual level gauges with or without thermometer are made in polyamide with or without nylon cover. They are supplied with a Buna-N oil seal.

Materials
Nylon body and polyamide glass and plate. Protection glass. Plated steel fixing screw.
Temperature Range
-20°C to +90°C
Maximum Working Range
2 bar
Torque Bolt Tightening
10 Nm

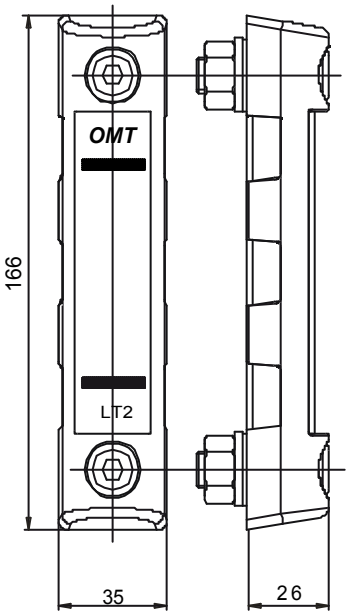
LT2T



HOLES ON THE TANK



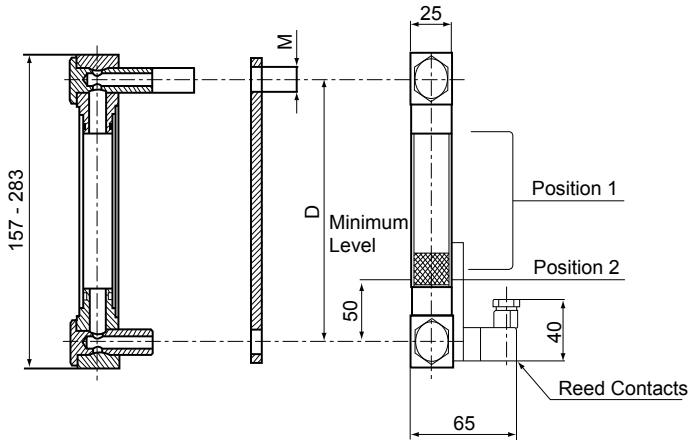
LT2P

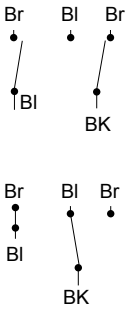


Electric Level Gauges

Electric / Visual Reservoir Level Gauges

Stock No.	Description	Dimensions		M		List Price
		D	E	Ø min	Ø max	
LV2E	Visual / Electric Level Gauge - 127mm	127	M12	12.5	13	$ 164.00
LV3E	Visual / Electric Level Gauge - 254mm	254	M12	12.5	13	$ 197.00

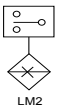




LV*E series level gauges allow the visual control of fluid in the oil tank. They also have a normally open double switch which activates reed contacts when the minimum oil level in the tank is reached.

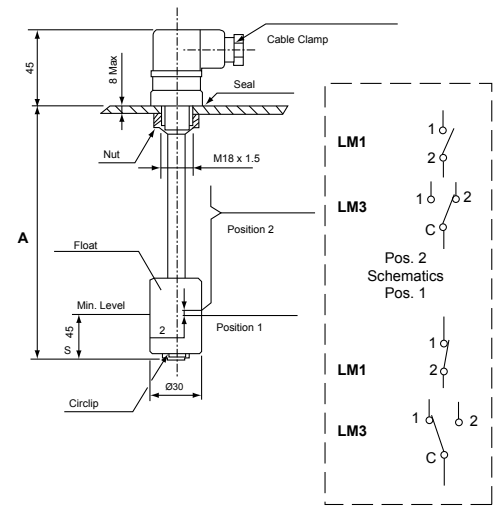
Technical characteristics are the same as LV series on previous page.

Electric Reservoir Level Gauges

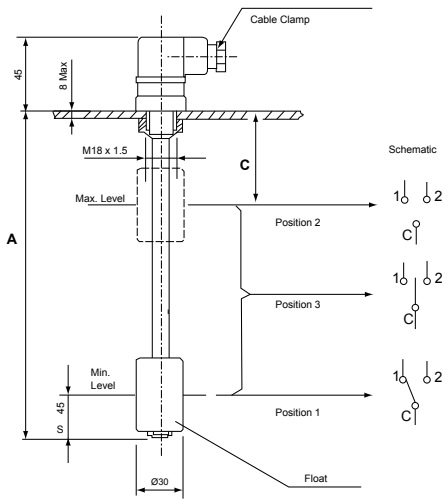
Stock No.	Description		Optional Dimensions (mm)						List Price
LM1F***	N.O. Level Gauge	LM1	A	130	150	200	250	-	$ 266.00
LM1F***	N.O. Level Gauge		A	300	350	400	450	500	$ 293.00
LM2F***	2 Pole Level Gauge	 LM2	A	-	150	200	250	-	$ 557.00
LM2F***	2 Pole Level Gauge		A	300	350	400	450	500	$ 613.00
LM3F***	N.C. Level Gauge	LM3	A	130	150	200	250	-	$ 278.00
LM3F***	N.C. Level Gauge		A	300	350	400	450	500	$ 307.00

*** Insert length required.

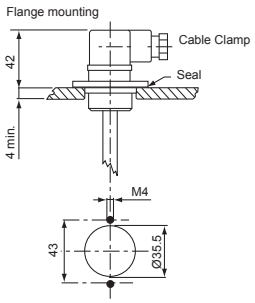
LM1* - LM3*****



LM2***



LM*F***

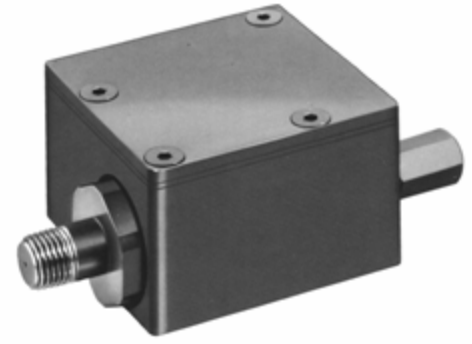


The LM*F*** level gauges give an electric signal when minimum and/or maximum levels are reached in the oil tank. They must be mounted vertically, fixed on the tank cover and at least 50mm away from oil tank walls.

PS Pressure Switches

Pressure Switch

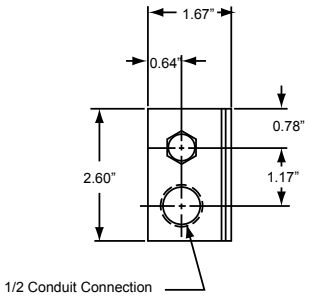
Stock No.	Description	Pressure Range	List Price
PS1500	Pressure Switch	150 - 1500 PSI Adjustable	$ 242.00
PS3000	Pressure Switch	500 - 3000 PSI Adjustable	$ 242.00

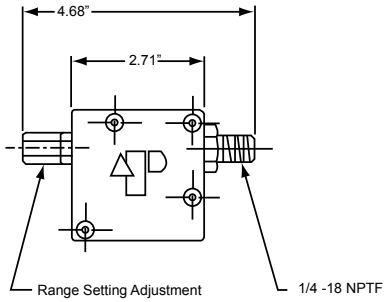


This compact, rugged pressure switch is designed to meet today's need for an inexpensive, yet dependable control. Although housed in an oil-tight, cast iron body, the assembly weighs only 1 kg (2lb 4oz) and can be easily included into new or existing circuitry.

Features Include:

- A micro switch rated for 2 million cycles.
- A specially designed actuator consisting of a dampened piston and positive striker plate.
- Externally adjustable pressure range.
- 1/2 Conduit connector.
- 1/4 NPTF male pipe thread
- Common, normally open, and normally closed terminals.
- Gasketed, removable cover for ease of wire assembly.
- Pressure reset characteristics: 50-150 PSI differential.



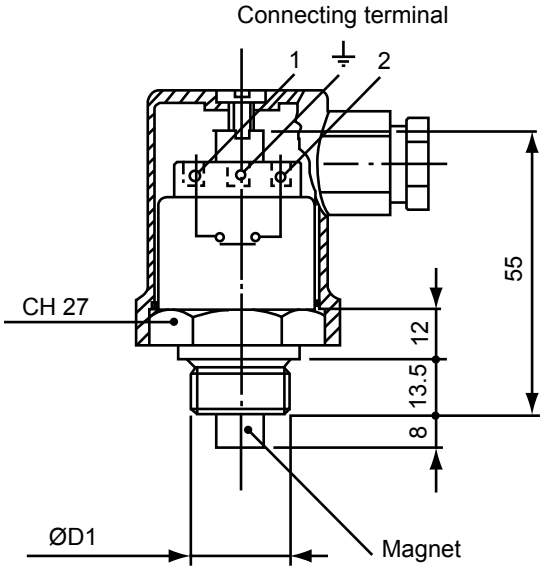


Micro Switch Electrical Data UL and CSA Listed:
15 Amps and 1/2HP, 125 or 250 VAC
1/2 Amp, 125 VDC
1/4 Amp, 250 VDC
5 Amp, 120 VAC "L"

OMT - Bi-Metallic Thermostat Switch

Stock No.	Description	Thread	Working Temp.	Max. Temp	Rating	Electrical Resistance				List Price
						110VAC	24VAC	12VDC	24VDC	
TB60CM	Thermostat Switch	1/2" BSPP	60°C	100°C	IP65	1.5A	5A	5A	2A	$ 152.00

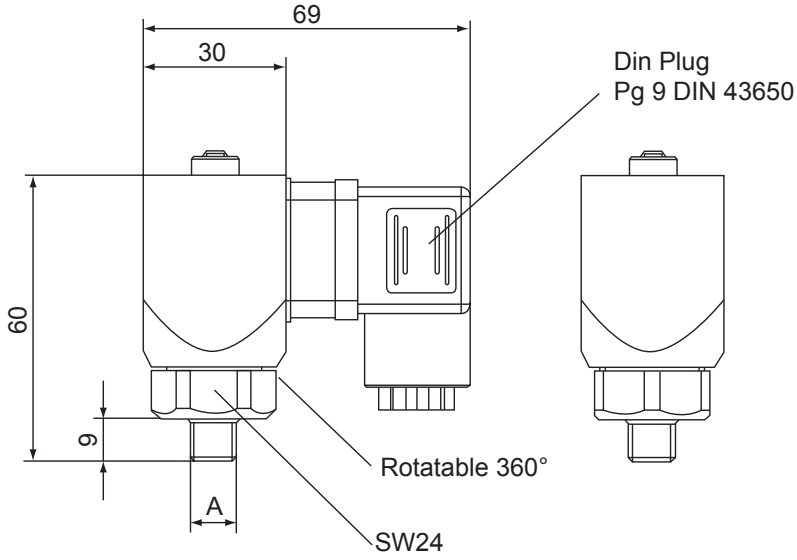
TB60CM

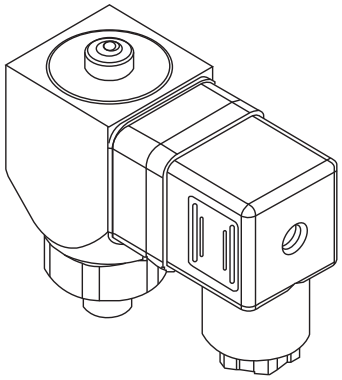


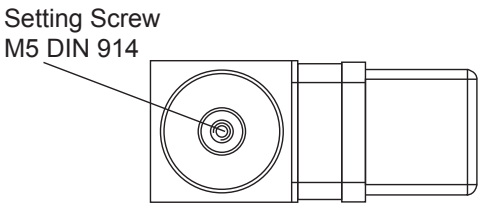
600 Pressure Switches

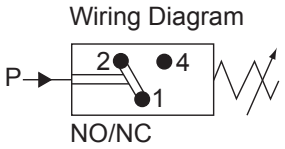
Pressure Switch

Stock No.	Description	A	Pressure Range	List Price
600070	Pressure Switch	1/4” BSPP	10 - 70 Bar Adjustable	$ 250.00
600200	Pressure Switch	1/4” BSPP	50 - 200 Bar Adjustable	$ 250.00









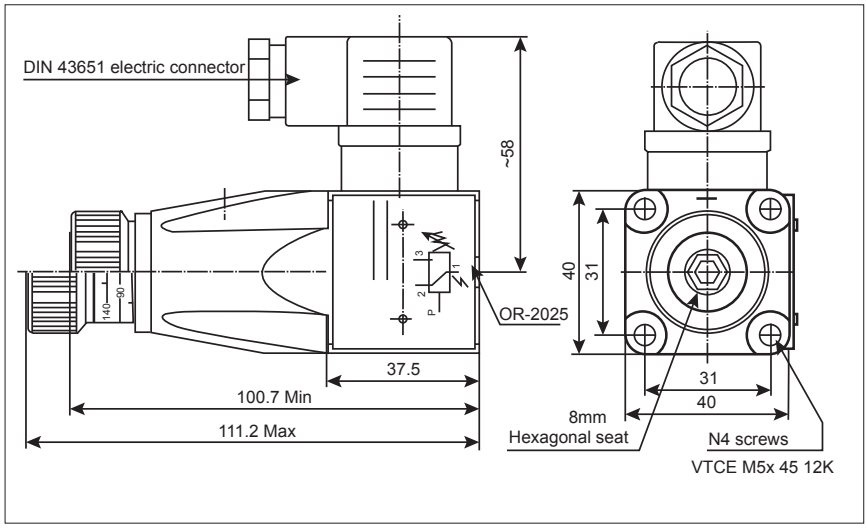
TECHNICAL DATA

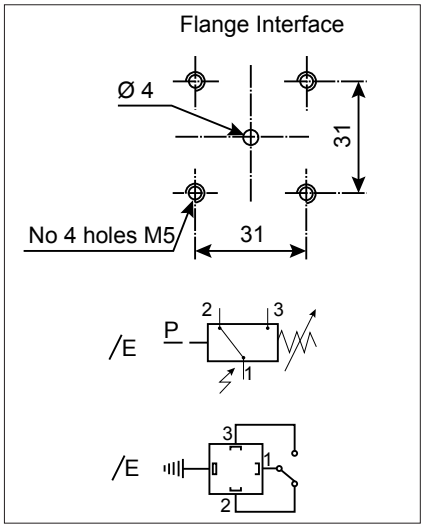
PART NO.	600070	600200
Pressure Setting Range	10-70 bar	50-200 bar
Working Pressure Max.	70 bar	200 bar
Bursting Pressure	120 bar	300 bar
Fitting Thread	1/4” BSPP male	
Mounting Position	Any	
Ambient Temperature	-25°C to +85°C	
Adjustability	Under pressure	
Differential	15-25%	
Material	Galvanised Steel	
Weight	230 grams	
Switching Element	Micro switch - silver plated contacts/special gold plated contacts	
Reference Voltage	250 V	
Reference Frequency	Not over 100 Hz	
Protective System	IP 65	

FTIPN Pressure Switches

Pressure Switch

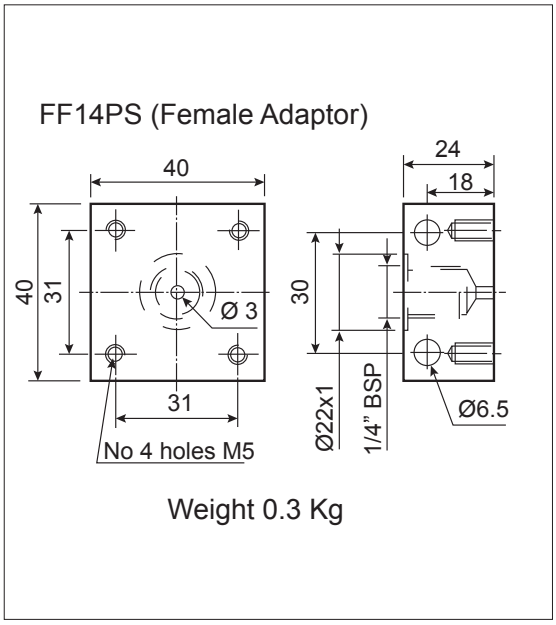
Stock No.	Description	Interface	Pressure Range	List Price
FTIPN150	Pressure Switch	Flange 31 x 31	12 - 150 Bar Adjustable	$ 345.00
FTIPN350	Pressure Switch	Flange 31 x 31	30 - 350 Bar Adjustable	$ 345.00
FTIPN630	Pressure Switch	Flange 31 x 31	50 - 630 Bar Adjustable	$ 345.00

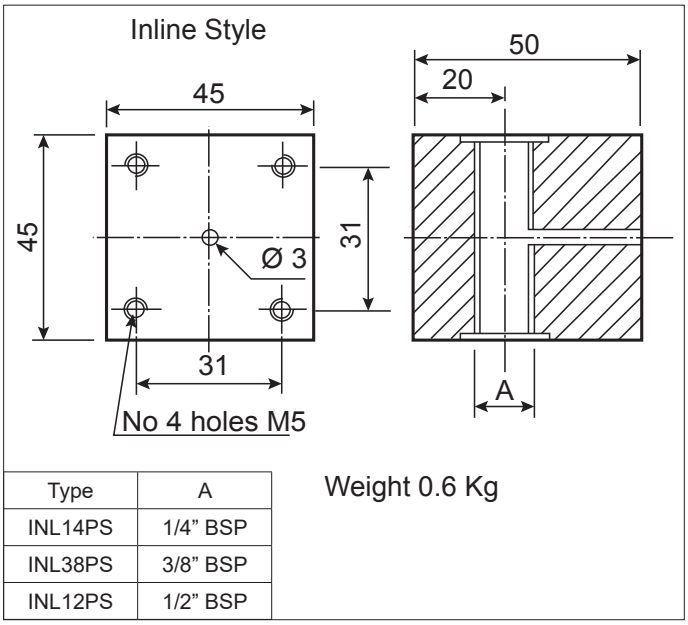




Pressure Switch Adaptors

Stock No.	Description	A	Style	List Price
FF14PS	Pressure Switch Adaptor	1/4" BSPP F	End	$ 29.00
INL14PS	Pressure Switch Adaptor	1/4" BSPP F	Inline	$ 32.00



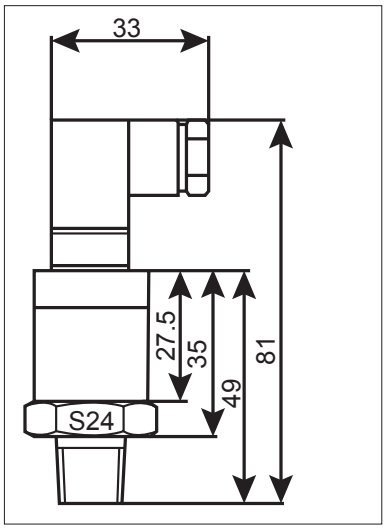


Type	A
INL14PS	1/4" BSP
INL38PS	3/8" BSP
INL12PS	1/2" BSP

SPT Pressure Transducers

Pressure Transducers

Stock No.	Description	A	Pressure Range	List Price
SPT1200009	Pressure Transducer	1/4” BSPP	0 - 150 Bar Adjustable	$ 277.00
SPT1200010	Pressure Transducer	1/4” BSPP	0 - 200 Bar Adjustable	$ 277.00
SPT1200011	Pressure Transducer	1/4” BSPP	0 - 300 Bar Adjustable	$ 277.00



Parameter	Value	Note
Measure Range Bar	2 - 4 - 6 -10 - 20 - 40 - 60 - 100 - 160 - 200 - 300 - 400 - 500 - 600	1 bar = 100kPa
Overload Pressure	1.5 x RP (rated pressure)	
Broken Pressure	3 x RP (rated pressure)	
Accuracy	± 0.5 FS	
Stability	Typical ± 0.5% FS Max 1% FS	
Operating Temperature	-40°C +125°C	
Compensating Temperature	-10°C +80°C	
Storage Temperature	-50°C +125°C	
Medium Compatibility	Corrosive medium compatible with Cr18Ni9Ti ceramic	
Wires	two-wire / three-wire	
Output Signal	4 - 20 mA 0.5 - 4.5 V 0/5 V 0/10Va	
Power Supply	12-30 Vdc 5 Vdc/10 - 30 Vdc/ac	dc/ac means dc and ac are both usuable
Load Resistance	(U-10)/0.02 (∩) > 100K ∩	
Insulation	>100M ∩ @ 50V	
Elec. Connector	Packard, DIN 43650C, DIN 72585, M12Seial, Cable	
Shell Protection	IP67	
Wire Protection	IP67	
Connection	G1/4, NPT 1/4, 7/16-20UNF, G1/2	
Response Time	10 ms	
Pressure Form	Gauge G, Absolute A	
Certificate	CE, Intrinsically safe E, Explosion-proof D	
EMC	EMI: EN50081-1/-2 EMS: EN50082-2	

Section 14
Bell Housings & Drive Couplings

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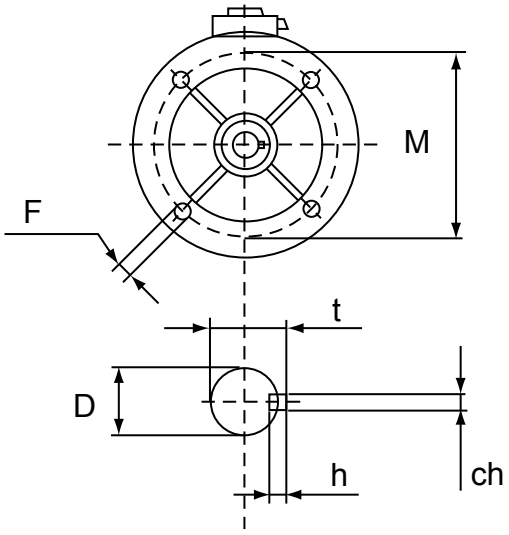
MAKE	MODEL	PAGE

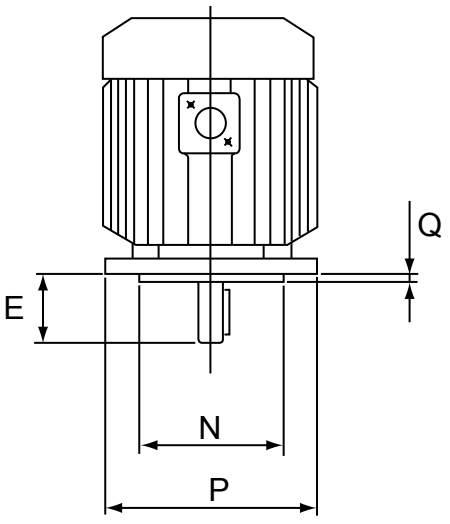
Dimensions

Metric Frame Electric Motors

Electric Motor Dimension Table

Frame Size	2 Pole 2900 RPM		4 Pole 1450 RPM		6 Pole 960 RPM		8 Pole 720 RPM		Flange Dimensions					Shaft Dimensions				
	kW	HP	kW	HP	kW	HP	kW	HP	P	M	N	Q	F	D	E	ch	h	t
63	0.18 ÷ 0.25	0.25 ÷ 0.35	0.12 ÷ 0.18	0.16 ÷ 0.25	-	-	-	-	140	115	95	3	9.5	11	23	4	4	12.8
71	0.37 ÷ 0.55	0.5 ÷ 0.37	0.25 ÷ 0.37	0.35 ÷ 0.5	-	-	-	-	160	130	110	3.5	9.5	14	30	5	5	16.3
80	0.75 ÷ 1.1	1 ÷ 1.5	0.55 ÷ 0.75	0.75 ÷ 1	0.37 ÷ 0.55	0.5 ÷ 0.75	0.18 ÷ 0.25	0.25 ÷ 0.35	200	165	130	3.5	11.5	19	40	6	6	21.5
90	1.5 ÷ 2.2	2 ÷ 3	1.1 ÷ 1.5	1.5 ÷ 2	0.75 ÷ 1.1	1 ÷ 1.5	0.37 ÷ 0.55	0.5 ÷ 0.75	200	165	130	3.5	11.5	24	50	8	7	27
100	3	4	2.2 ÷ 3	3 ÷ 4	1.5	2	0.75 ÷ 1.1	1 ÷ 1.5	250	215	180	4	14	28	60	8	7	31
112	4	5.5	4	5.5	2.2	3	1.5	2	250	215	180	4	14	28	60	8	7	31
132	7.5 ÷ 9	10 ÷ 12.5	5.5 ÷ 9	7.5 ÷ 12.5	3 ÷ 5.5	4 ÷ 7.5	2.2 ÷ 3	3 ÷ 4	300	265	230	4	14	38	80	10	8	41
160	11 ÷ 18.5	15 ÷ 25	11 ÷ 15	15 ÷ 20	7.5 ÷ 11	10 ÷ 15	4 ÷ 7.5	5.5 ÷ 10	350	300	250	5	18	42	110	12	8	45
180	22	30	18.5 ÷ 22	25 ÷ 30	15	20	11	15	350	300	250	5	18	48	110	14	9	51.5
200	30 ÷ 37	40 ÷ 50	30	40	18.5 ÷ 22	25 ÷ 30	15	20	400	350	300	5	18	55	110	16	10	59
225	45	60	37 ÷ 45	50 ÷ 60	30	40	22	30	450	400	350	5	18	60	140	18	11	64





Standard DIN Pump Bell Housings

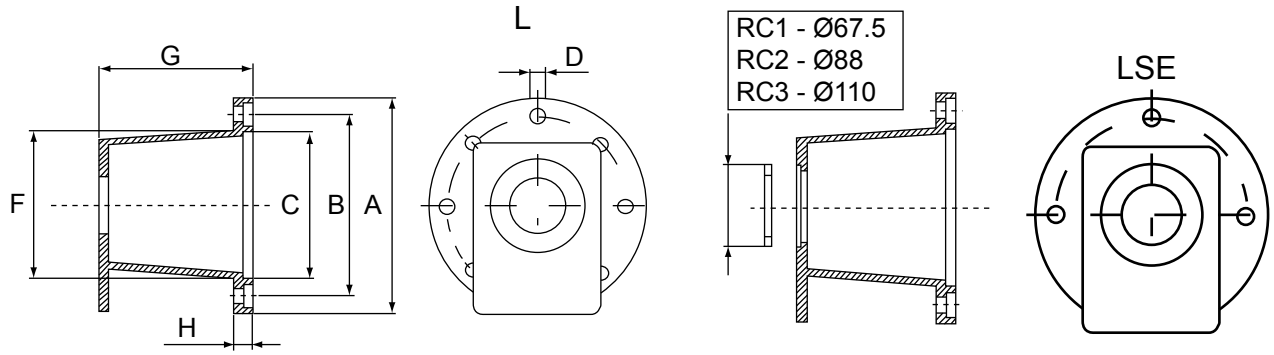
To Fit Metric Frame Electric Motors

Electric Motor Bell Housings to fit Standard Group 05 DIN Pumps

Stock No.	Description	Frame	Pump	A	B	C	D	F	G	H	List Price
L1401	Bell Housing	D63	Group 05	140	115	95	10	100	60	11	$ 39.00
L1601	Bell Housing	D71	Group 05	160	130	110	10	110	70	14	$ 46.00
L2101	Bell Housing	D80/90	Group 05	200	165	130	12	135	88	15	$ 58.00

Electric Motor Bell Housings to fit Standard Group 1 DIN Pumps

Stock No.	Description	Frame	Pump	A	B	C	D	F	G	H	List Price
L1402	Bell Housing	D63	Group 1	140	115	95	10	100	60	11	$ 39.00
L1602	Bell Housing	D71	Group 1	160	130	110	10	110	70	14	$ 46.00
LSE20BDF1	Bell Housing	D80/90	Group 1	200	165	130	12	135	95	15	$ 64.00
LSE25ADF1	Bell Housing	D100/112	Group 1	250	215	180	14	185	102	21	$ 82.00



Electric Motor Bell Housings to fit Standard Group 2 DIN Pumps

Stock No.	Description	Frame	Pump	A	B	C	D	F	G	H	List Price
LSE20BDF1	Bell Housing	D80/90	Group 2	200	165	130	12	135	95	15	$ 64.00
LSE25ADF1	Bell Housing	D100/112	Group 2	250	215	180	14	185	105	21	$ 82.00
LSE25BDF1	Bell Housing	D100/112	Group 2	250	215	180	14	185	115	21	$ 85.00
LSE30ADF4	Bell Housing	D132	Group 2	300	265	230	14	238	143	21	$ 133.00
LS35CDF4	Bell Housing	D160/180	Group 2	350	300	250	18	253	178	25	$ 247.00

Electric Motor Bell Housings to fit Standard Group 3 DIN Pumps

Stock No.	Description	Frame	Pump	A	B	C	D	F	G	H	List Price
LSE25BDF1	Bell Housing	D100/112	Group 3	250	215	180	14	185	105	21	$ 85.00
LSE30ADF4	Bell Housing	D132	Group 3	300	265	230	14	238	143	21	$ 133.00
LS35CDF4	Bell Housing	D160/180	Group 3	350	300	250	18	253	178	25	$ 247.00

Electric Motor Bell Housings to fit Standard Group 4 DIN Pumps

Stock No.	Description	Frame	Pump	A	B	C	D	F	G	H	List Price
LSE406	Bell Housing	D200	Group 4	400	350	300	18	299	188	25	$ 460.00

SAE Pump Bell Housings

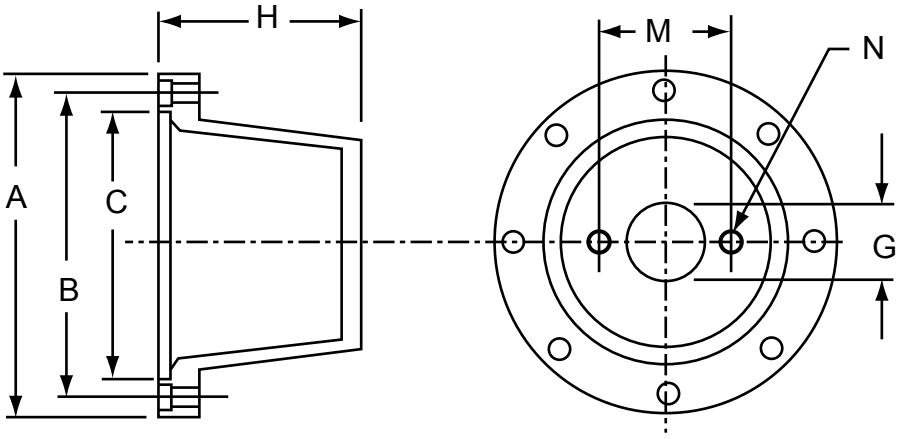
To Fit Metric Frame Electric Motors

Electric Motor Bell Housings to fit SAE 'AA' 2B Mount Pumps

Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
TH20A508A	Bell Housing	D80/90	SAE AA	200	165	130	95	50.8	82.5	M8	$ 84.00
THB25508A	Bell Housing	D100/112	SAE AA	250	215	180	112	50.8	82.5	M8	$ 124.00

Electric Motor Bell Housings to fit SAE 'A' 2B Mount Pumps

Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
TH1825A	Bell Housing	D80/90	SAE A	200	165	130	126	82.5	106	M10	$ 84.00
TH2825A	Bell Housing	D100/112	SAE A	250	215	180	136	82.5	106	M10	$ 124.00
TH3825A	Bell Housing	D132	SAE A	300	265	230	170	82.5	106	M10	$ 168.00
TH4825A	Bell Housing	D160/180	SAE A	350	300	250	195	82.5	106	M10	$ 235.00



Electric Motor Bell Housings to fit SAE 'B' 2B Mount Pumps

Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
B20Q1A101A	Bell Housing	D80/90	SAE B	200	165	130	130	102	146	M12	$ 129.00
TH2101A	Bell Housing	D100/112	SAE B	250	215	180	136	102	146	M12	$ 124.00
TH3101A	Bell Housing	D132	SAE B	300	265	230	170	102	146	M12	$ 168.00
TH4101A	Bell Housing	D160/180	SAE B	350	300	250	195	102	146	M12	$ 235.00
B40T1D101A	Bell Housing	D200	SAE B	400	350	300	206	102	146	M12	$ 405.00
B45T1D101A	Bell Housing	D225	SAE B	450	400	350	235	102	146	M12	$ 557.00

Electric Motor Bell Housings to fit SAE 'C' 2B Mount Pumps

Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
TH4127A	Bell Housing	D168/180	CAE C	350	300	250	195	127	181	M16	$ 235.00
B40T1D127A	Bell Housing	D200	SAE C	400	350	300	206	127	181	M16	$ 405.00
B45T1D127A	Bell Housing	D225	SAE C	450	400	350	235	127	181	M16	$ 557.00
B55D50T1A127A	Bell Housing	D250	SAE C	550	500	450	290	127	181	M16	$ 938.00

Bosch Pump Bell Housings

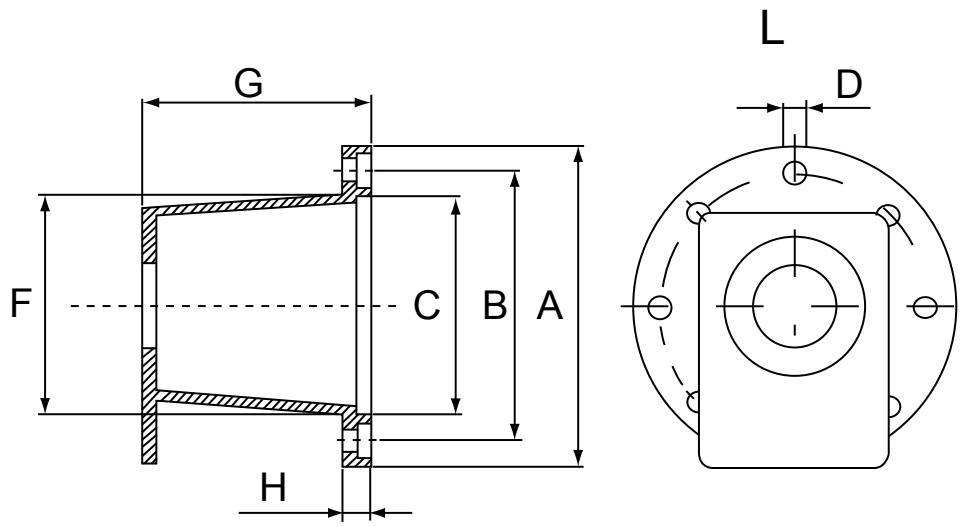
To Fit Metric Frame Electric Motors

Electric Motor Bell Housings to fit Bosch ZB Series Pumps (32mm Spigot)

Stock No.	Description	Frame	Pump	A	B	C	D	F	G	H	List Price
LB18	Bell Housing	D63	Type ZBR	140	115	95	10	100	60	11	$ 48.00
LB19	Bell Housing	D71	Type ZBR	160	130	110	10	110	70	14	$ 48.00
LB20	Bell Housing	D80/90	Type ZBR	200	165	130	12	135	95	15	$ 63.00
LB22	Bell Housing	D100/112	Type ZBR	250	215	180	14	185	105	21	$ 84.00

Electric Motor Bell Housings to fit Bosch ZF Series Pumps (80mm Spigot)

Stock No.	Description	Frame	Pump	A	B	C	D	F	G	H	List Price
LB21	Bell Housing	D80/90	Type ZFR-S	200	165	130	12	135	95	15	$ 63..00
LB24	Bell Housing	D100/112	Type ZFR-S	250	215	180	14	185	115	21	$ 90.00
LB26	Bell Housing	D132	Type ZFR-S	300	265	230	14	238	143	21	$ 140.00
LB31	Bell Housing	D160/180	Type ZFR-S	350	300	250	18	253	178	25	$ 251.00



Electric Motor Bell Housings to fit Bosch ZG Series Pumps (105mm Spigot)

Stock No.	Description	Frame	Pump	A	B	C	D	F	G	H	List Price
L2011	Bell Housing	D80/90	Type ZGR-S	200	165	130	12	135	126	16	$ 174.00
LB25	Bell Housing	D100/112	Type ZGR-S	250	215	180	14	185	115	21	$ 91.00
LB27	Bell Housing	D132	Type ZGR-S	300	265	230	14	238	143	21	$ 140.00
LB32	Bell Housing	D160/180	Type ZGR-S	350	300	250	18	253	178	25	$ 251.00
LB30	Bell Housing	D200	Type ZGR-S	400	350	300	18	299	188	25	$ 557.00

ISO Pump Bell Housings

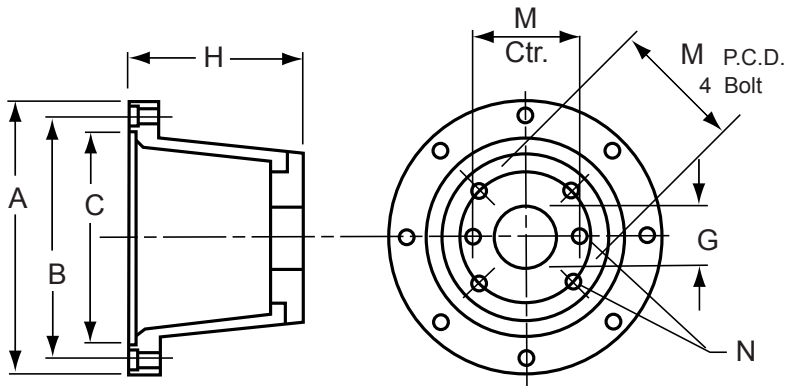
To Fit Metric Frame Electric Motors

Electric Motor Bell Housings to fit ISO 80-4 4B Pumps (80mm Spigot)

Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
TH180M	Bell Housing	D80/90	ISO80-4	200	165	130	126	80	103	M8	$ 91.00
TH280M	Bell Housing	D100/112	ISO80-4	250	215	180	136	80	103	M8	$ 133.00
TH380M	Bell Housing	D132	ISO80-4	300	265	230	195	80	103	M8	$ 196.00
TH480M	Bell Housing	D160/180	ISO80-4	350	300	250	195	80	103	M8	$ 251.00

Electric Motor Bell Housings to fit ISO 100-4 4B Pumps (100mm Spigot)

Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
B20Q1A100B	Bell Housing	D80/90	ISO100-4	200	165	130	130	100	125	M10	$ 251.00
TH2100B	Bell Housing	D100/112	ISO100-4	250	215	180	136	100	125	M10	$ 133.00
TH3100B	Bell Housing	D132	ISO100-4	300	265	230	195	100	126	M10	$ 182.00
TH4100B	Bell Housing	D160/180	ISO100-4	350	300	250	195	100	125	M10	$ 251.00
B40T1F100B	Bell Housing	D200	ISO100-4	400	350	300	195	100	125	M10	$ 488.00



Electric Motor Bell Housings to fit ISO 125-4 4B Pumps (125mm Spigot)

Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
TH3Q2B125A	Bell Housing	D132	ISO125-4	300	265	230	219	125	160	M12	$ 244.00
TH4Q2A125A	Bell Housing	D160/180	ISO125-4	350	300	250	219	125	160	M12	$ 313.00
B40T1D125A	Bell Housing	D200	ISO125-4	400	350	300	215	125	160	M12	$ 488.00
B45T1D125A	Bell Housing	D225	ISO125-4	450	400	350	235	125	160	M12	$ 605.00

Electric Motor Bell Housings to fit ISO 160-4 4B Pumps (160mm Spigot)

Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
B35T1D160A	Bell Housing	D160/180	ISO160-4	350	300	250	215	160	200	M16	$ 417.00
B40T1D160A	Bell Housing	D200	ISO160-4	400	350	300	215	160	200	M16	$ 488.00
B45T1D160A	Bell Housing	D225	ISO160-4	450	400	350	250	160	200	M16	$ 605.00

Electric Motor Bell Housings to fit ISO 200-4 4B Pumps (200mm Spigot)

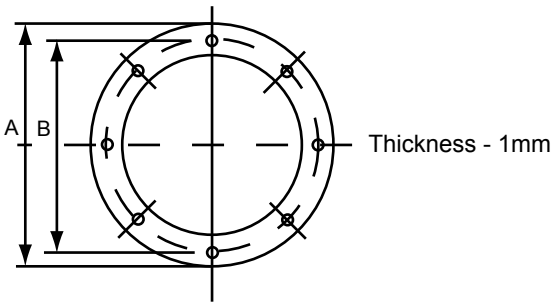
Stock No.	Description	Frame	Pump	A	B	C	H	G	M	N	List Price
B45Q4F200B	Bell Housing	D225	ISO200-4	450	400	350	265	200	250	M20	$ 711.00

Bell Housing Gaskets

To Fit Metric Frame Electric Motors

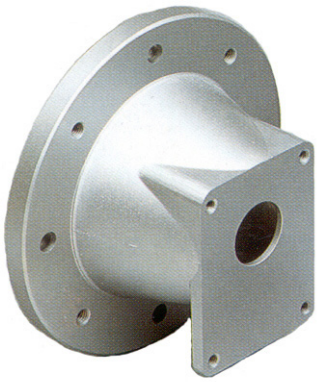
Bell Housing Gaskets

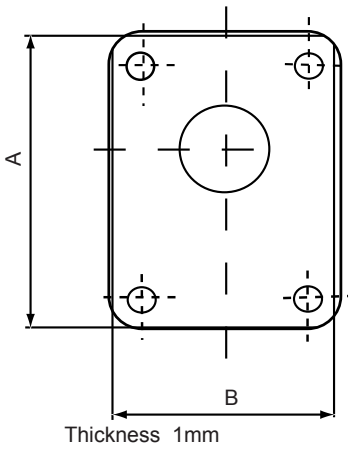
Stock No.	Description	Motor Frame	A	D	List Price
GL140	Bell Housing Gasket	D63	140	115	$ 20.00
GL160	Bell Housing Gasket	D71	160	130	$ 20.00
GL200	Bell Housing Gasket	D80/90	200	165	$ 20.00
GL250	Bell Housing Gasket	D100/112	250	215	$ 20.00
GL300	Bell Housing Gasket	D132	300	265	$ 20.00
GL350	Bell Housing Gasket	D160/180	350	300	$ 20.00
GL400	Bell Housing Gasket	D200	400	350	$ 20.00



Pump Mounting Gaskets

Stock No.	Description	Suits Pump	A	B	List Price
GP05	Pump Mounting Gasket	Standard DIN Group 05	82	50	$ 20.00
GP1P	Pump Mounting Gasket	Standard DIN Group 1	90	69	$ 20.00
GP2	Pump Mounting Gasket	Standard DIN Group 2	118	86	$ 20.00
GPZF	Pump Mounting Gasket	Bosch ZF Series	121	91	$ 20.00
GP3	Pump Mounting Gasket	Standard DIN Group 3	170	120	$ 20.00
GP3.5	Pump Mounting Gasket	Standard DIN Group 3.5	180	158	$ 20.00
GP4	Pump Mounting Gasket	Standard DIN Group 4	230	175	$ 20.00

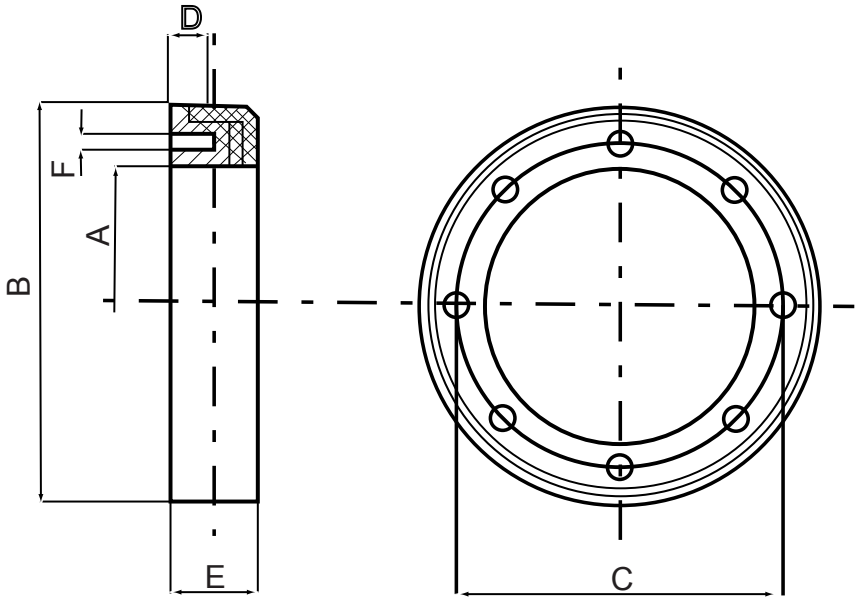




Damping Rings

Damping Rings - A Series

Stock No.	Description	Dimensions (mm)						List Price
		A	B	C	D	E	F	
A200	Damping Ring	145	200	165	15	43	M10	$ 152.00
A250	Damping Ring	190	250	215	18	49	M12	$ 186.00
A300	Damping Ring	235	300	265	18	56	M12	$ 253.00
A350	Damping Ring	260	350	300	24	63	M16	$ 361.00
A400	Damping Ring	311	400	350	24	70	M16	$ 1000.00



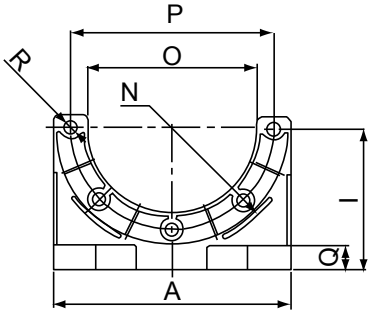
These articles are made of two rings moulded into vulcanized rubber. Interposed between the bell housing and the tank cover, they diminish the vibrations created by the power transmission by approx. 3-5 dB. The employed rubber is mineral oil resistant, maximum working temperature is 80°C.

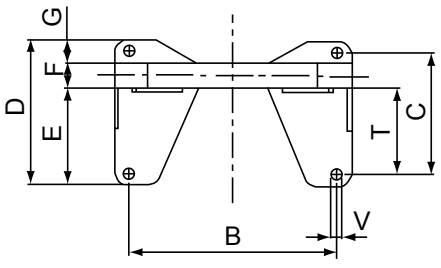
P Series Foot Flanges

P Series Foot Flanges

Manufactured from high resistance aluminium alloy, these flanges are used to support our bell housings with standard B5 flange up to an external motor diameter of 350mm.

Stock No.	Description	Dimensions (mm)															List Price
		A	B	C	D	E	F	G	I	N	O	P	Q	R	T	V	
P160	Foot Flange	165	135	80	100	45	10	45	98	80	111	130	10	9	35	9	$ 51.00
P200	Foot Flange	202	168	103	125	54	19	54	123	100	140	165	22	11.5	42.5	9	$ 63.00
P250	Foot Flange	252	220	130	155	105	25	25	150	125	180	215	25	13	92.5	11	$ 106.00
P300	Foot Flange	302	265	160	190	115	25	50	175	150	240	265	25	13	100	13	$ 143.00
P350	Foot Flange	362	310	250	286	183	30	73	205	175	256	300	30	18	165	15	$ 246.00

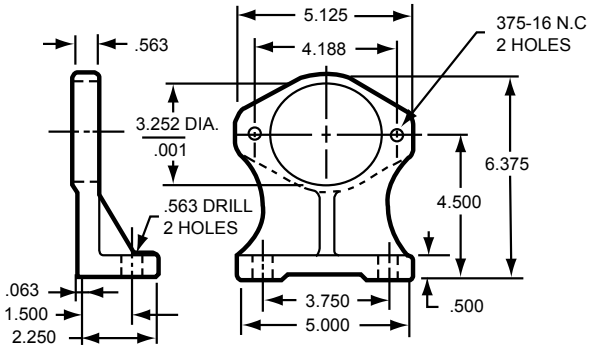




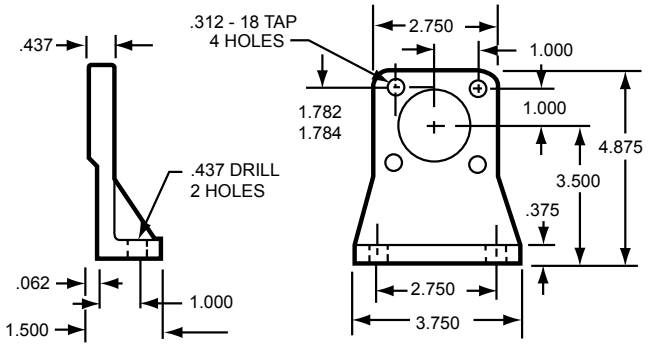
Foot Mount Brackets

Delta Foot Mount Brackets

Stock No.	Description	Mount	Fits Pump Type	List Price
K2	Foot Mount Bracket	SAE 'A' 2B	Cross 40 Series etc.	$ 120.00
K4	Foot Mount Bracket	4 Bolt	Delta Log Splitter etc.	$ 94.00



K2 Mounting Bracket



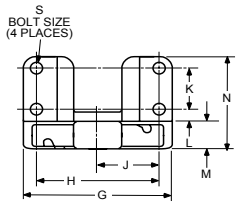
K4 Mounting Bracket

(Dimensions shown in inches)

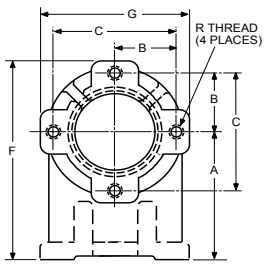
Continental Foot Mount Brackets

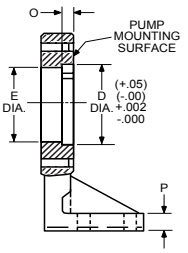
Stock No.	Description	Mount	Fits Pump Type	List Price
FPVR6	Foot Mount Bracket	SAE A	40 Series, HC02	$ 384.00
FPVR15	Foot Mount Bracket	SAE B	40 Series, HC03	$ 456.00
FPVR30	Foot Mount Bracket	SAE C	60 Series, ALP4	$ 584.00
FPVR50D	Foot Mount Bracket	SAE D		$ 489.00

FPVR FOOT MOUNTING BRACKETS DIMENSIONS



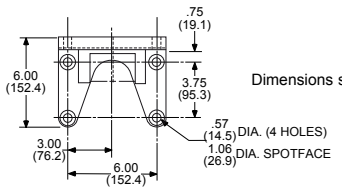
Dimensions shown in: Inches
(millimeters)



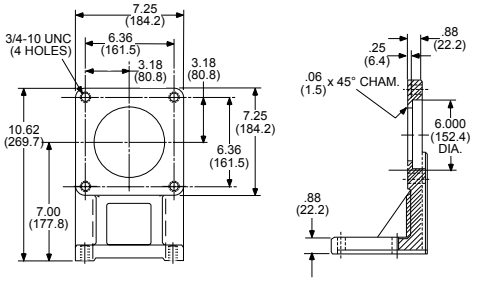


FPVR50D FOOT MOUNTING BRACKET DIMENSIONS

SAE D Mounting



Dimensions shown in: Inches
(millimeters)



Foot Bracket Series	SAE Flange	Dimensions Inches (millimeters)																
		A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R THREAD	S BOLT SIZE
FPVR6	A	5.25 (133.4)	2.09 (53.1)	4.19 (106.4)	3.252 (82.6)	3.00 (76.2)	7.81 (198.4)	5.12 (130.0)	3.50 (88.9)	1.75 (44.4)	2.00 (50.8)	.48 (12.2)	1.00 (25.4)	3.98 (101.1)	.31 (7.9)	.81 (20.6)	3/8-16 UNC	3/8 In.
FPVR15	B	6.25 (158.8)	2.87 (73.0)	5.75 (146.1)	4.00 (101.6)	4.25 (108.0)	9.69 (246.1)	6.85 (174.0)	5.75 (146.1)	2.87 (73.0)	2.01 (51.1)	.59 (15.0)	1.26 (32.0)	4.45 (113.0)	.47 (11.9)	.79 (20.1)	1/2-13 UNC	1/2 In.
FPVR30	C	8.00 (203)	3.56 (90.4)	7.12 (181.0)	5.001 (127.0)	4.75 (120.7)	12.19 (309.6)	8.39 (213.1)	6.00 (152.4)	3.00 (76.2)	3.75 (95.3)	.75 (19.1)	1.18 (30.0)	6.18 (157)	.55 (14.0)	.79 (20.1)	5/8-11 UNC	1/2 In.

Petrol Engine Bell Housings

Petrol Engine Bell Housings to fit Standard DIN 4B Pumps - Male Spigot

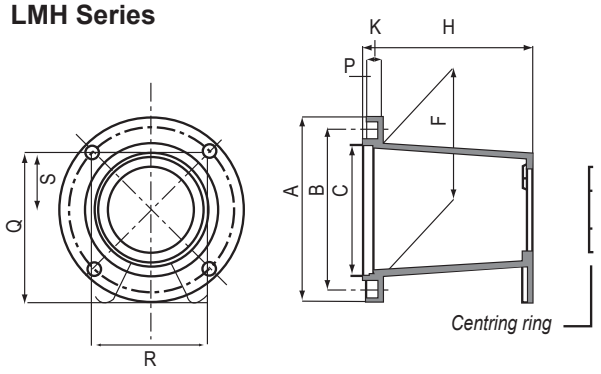
Stock No.	Description	Pump Type	kW	HP	Engine Spigot		List Price
LMH151	Bell Housing	Group 1 4B Mount	2.2 ÷ 4	3 ÷ 5.5	Male	41.3 mm	$ 64.00
LMH401	Bell Housing	Group 1 4B Mount	5 ÷ 13.5	7 ÷ 18	Male	110 mm	$ 113.00
LMH403	Bell Housing	Group 2 4B Mount	5 ÷ 13.5	7 ÷ 18	Male	110 mm	$ 113.00

Petrol Engine Bell Housings to fit Standard DIN 4B Pumps - Female Spigot

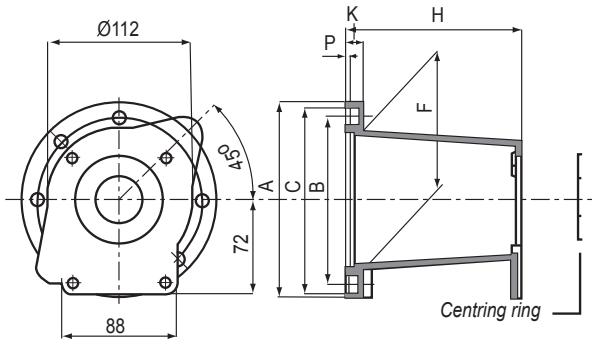
Stock No.	Description	Pump Type	kW	HP	Engine Spigot		List Price
LB152U1P	Bell Housing	Group 1 4B Mount	5 ÷ 13.5	7 ÷ 18	Female	146 mm	$ 85.00
LB1522	Bell Housing	Group 2 4B Mount	5 ÷ 13.5	7 ÷ 18	Female	146 mm	$ 85.00
LB170U1P	Bell Housing	Group 1 4B Mount	13.5	18	Female	163.5 mm	$ 98.00
LB1702	Bell Housing	Group 2 4B Mount	13.5	18	Female	163.5 mm	$ 98.00
LB1703U	Bell Housing	Group 3 4B Mount	13.5	18	Female	163.5 mm	$ 98.00

Notes:
- Bell housing prefix 'LMH' has a male engine alignment.
- Bell housing prefix 'LB' has a female engine alignment.

LMH Series



LB Series

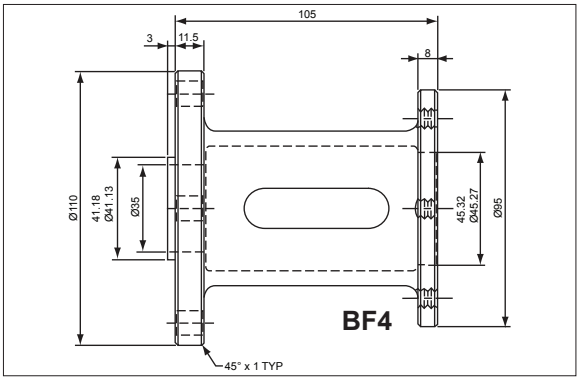


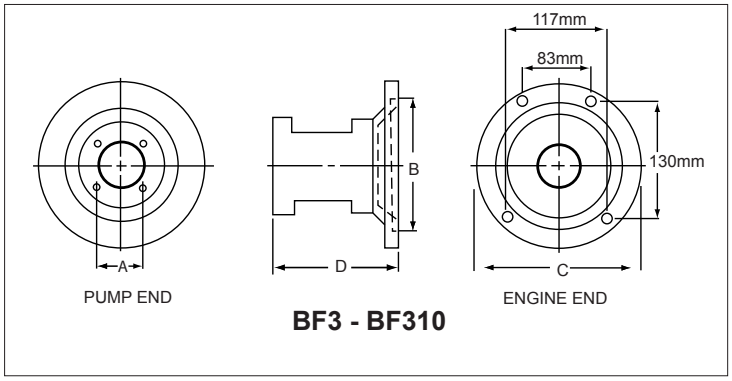
Petrol Engine Bell Housings to fit SAE 2B Pumps - Female Spigot

Stock No.	Description	Pump Type	kW	HP	Engine Spigot		List Price
LB152825A	Bell Housing	SAE 'A' 2 Bolt	5 ÷ 13.5	7 ÷ 18	Female	146 mm	$ 76.00
LB152101A	Bell Housing	SAE 'B' 2 Bolt	5 ÷ 13.5	7 ÷ 18	Female	146 mm	$ 115.00
LB170825A	Bell Housing	SAE 'A' 2 Bolt	13.5	18	Female	163.5 mm	$ 76.00
LB170101A	Bell Housing	SAE 'B' 2 Bolt	13.5	18	Female	163.5 mm	$ 76.00

Petrol Engine Bell Housings to fit SAE4F17 (Hi-Low) 4B Pumps

Stock No.	Description	Pump Type	kW	HP	Engine Spigot		List Price
BF4	Bell Housing	4081 Log Splitter	2.2 ÷ 4	3 ÷ 5.5	Male	41.3 mm	$ 146.00
BF3	Bell Housing	4081 Log Splitter	5 ÷ 13.5	7 ÷ 18	Female	146 mm	$ 184.00
BF310	Bell Housing	4171 Log Splitter	5 ÷ 13.5	7 ÷ 18	Female	146 mm	$ 184.00



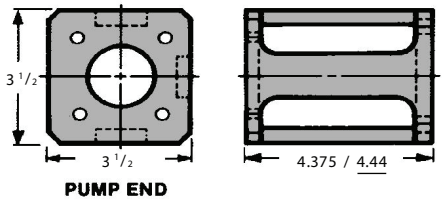
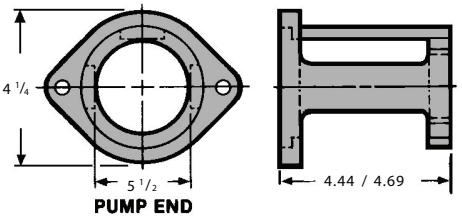


Petrol Engine Bell Housings

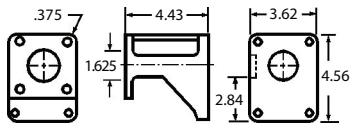
Petrol Engine Bell Housings

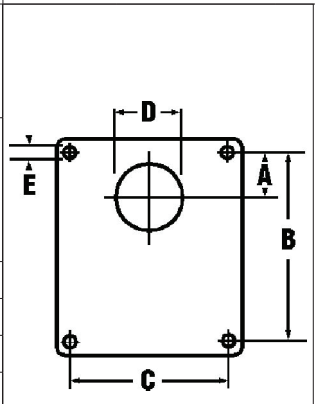
Stock No.	Description	Pump Type	HP	Engine Spigot	Bolt Circle	List Price
G10102444	Bell Housing	F17 4 Bolt	3 - 6.5	Male 41.3 mm	92 mm	$ 96.00
G11108469	Bell Housing	SAE A 2 Bolt	3 - 6.5	Male 41.3 mm	92 mm	$ 112.00
GM33238	Bell Housing	Group 1 4B	3 - 6.5	Male 41.3 mm	92 mm	$ 150.00
GM33240	Bell Housing	Group 1.5	3 - 6.5	Male 41.3 mm	92 mm	$ 150.00
GM33242	Bell Housing	Group 2	3 - 6.5	Male 41.3 mm	92 mm	$ 150.00
GM33246	Bell Housing	Group 2 Bosch	3 - 6.5	Male 41.3 mm	92 mm	$ 150.00

ENGINE MOUNT SELECTION CHART "G" SERIES

Frame Number	Pump Flange	Engine Data		
		Bolt Circle 3-5/8" Pilot Diameter (none) 1.780 Clearance Diameter	Bolt Circle 3-5/8" Pilot Diameter 1.625	Bolt Circle 6-1/2" Pilot Diameter 5.750
 Mount Basic Data Access Cover AC10 (1 Required) Maximum Coupling Diameter 2-1/2" Approximate Weight 1 lb. 3 oz.				
10	4F17	-101	-102	
 Mount Basic Data Access Cover AC11 (1 Required) Maximum Coupling Diameter 2-1/2" Approximate Weight 1 lb. 6 oz. Standard Lengths 4.44 SAE A A 2 Bolt 4.69 SAE A 2 Bolt				
11	SAE A A 2 Bolt	-105	-106	
	SAE A 2 Bolt	-107	-108	

DASH NUMBER FOR: ENGINE MOUNTS FOR METRIC PUMPS "GM" SERIES

Frame 33		Pump Flange Dimensions
Mount Basic Data Access Cover A33 (1 Required) Maximum Coupling Diameter 2-3/4" Approximate Weight 1 lb. 5 oz.		
		
1	-237	-238
2	-239	-240
3	-241	-242
4	-243	-244
5	-245	-246
6	-247	-248

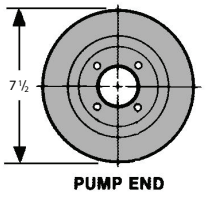


Order Code	A	B	C	D	E
1	26.5 1.04"	72 2.83"	52.4 2.08"	25.4 1.0"	M6
2	24.5 0.96"	73 2.87"	56 2.20"	30 1.18"	M6
3	32.2 1.27"	96.2 3.78"	71.5 2.81"	36.5 1.43"	M8
4	14.3 0.56"	60.4 2.38"	60 2.36"	50 1.97"	M8
5	34.5 1.36"	100 3.94"	72 2.83"	80 3.15"	M8
6	32.2 1.27"	46.2 3.78"	71.5 2.81"	36.5 1.43"	M8

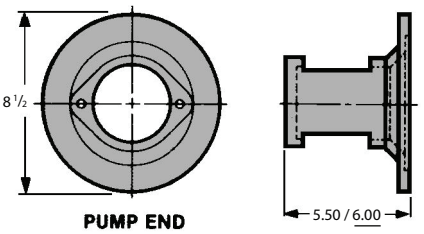
Petrol Engine Bell Housings

Petrol Engine Bell Housings

Stock No.	Description	Pump Type	HP	Engine Spigot	Bolt Circle	List Price
G15118562	Bell Housing	SAE A 2	9 - 18	Female 146 mm	165.1 mm	$ 250.00
G16135600	Bell Housing	SAE A 2	9 - 18	Female 177.8 mm	196.8 mm	$ 250.00
G16136600	Bell Housing	SAE A 2	9 - 18	Female 177.8 mm	196.8 mm	$ 250.00
G16137600	Bell Housing	SAE A 2	9 - 18	Female 177.8 mm	196.8 mm	$ 250.00
G16138600	Bell Housing	SAE A 2	9 - 18	Female 163.5 mm	196.8 mm	$ 250.00
G16139600	Bell Housing	SAE A 2	9 - 18	Female 163.5 mm	196.8 mm	$ 250.00
G16140600	Bell Housing	SAE A 2	9 - 18	Female 163.5 mm	196.8 mm	$ 250.00



Mount Basic Data
Access Cover AC15
(2 Required)
Maximum Coupling
Diameter 3”
Approximate Weight
3 lb. 1 oz.



Mount Basic Data
Access Cover AC16
(2 Required)
Maximum Coupling
Diameter 3-1/4”
Approximate Weight
4 lb. 5 oz.
Available with no
cover openings

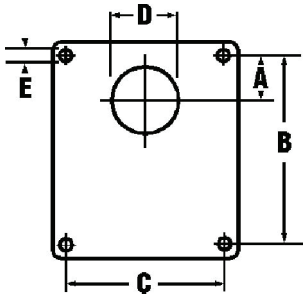
15	4F17*	-117
	SAE A A 2 Bolt	-118

16	4F17*	-122	-123	-124	-125	-126
	SAE A A 2 Bolt	-129	-130	-131	-132	-133
	SAE A 2 Bolt	-136	-137	-138	-139	-140

Stock No.	Description	Pump Type	HP	Engine Spigot	Bolt Circle	List Price
GM35279	Bell Housing	Group 1	9 - 25	Female 146 mm	165.1 mm	$ 270.00
GM35289	Bell Housing	Group 2	9 - 25	Female 146 mm	165.1 mm	$ 270.00
GM35293	Bell Housing	Group 2	9 - 25	Female 177.8 mm	196.8 mm	$ 270.00

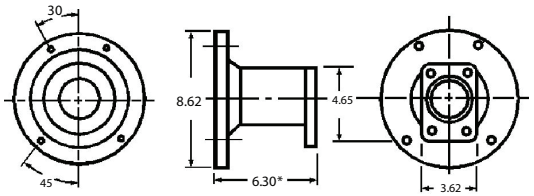
Pump Flange Dimensions

Order Code	A	B	C	D	E
1	26.5 1.04”	72 2.83”	52.4 2.08”	25.4 1.0”	M6
2	24.5 0.96”	73 2.87”	56 2.20”	30 1.18”	M6
3	32.2 1.27”	96.2 3.78”	71.5 2.81”	36.5 1.43”	M8
4	14.3 0.56”	60.4 2.38”	60 2.36”	50 1.97”	M8
5	34.5 1.36”	100 3.94”	72 2.83”	80 3.15”	M8
6	32.2 1.27”	46.2 3.78”	71.5 2.81”	36.5 1.43”	M8



Frame 35

Mount Basic Data
Access Cover AC35
(2 Required)
Maximum Coupling
Diameter 3-1/8”
Approximate Weight
3 lb. 10 oz.
*Available in 5.43
Length



1	-279	-280	-281	-282	-283
2	-284	-285	-286	-287	-288
3	-289	-290	-291	-292	-293
4	-294	-295	-296	-297	-298
5	-299	-300	-301	-302	-303
6	-304	-305	-306	-307	-308

Metric Pump Mount Part Number Order Code:
(Example: GM 34 - 250)

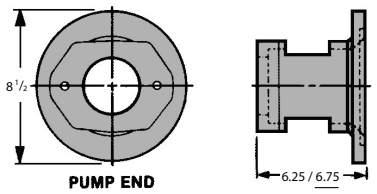
- Dash Number
- Frame Number
- Gas Engine / Metric Pump Flange

Length code at end of part number is deleted
since length is not an option for frame number 33-35.

Petrol Engine Bell Housings

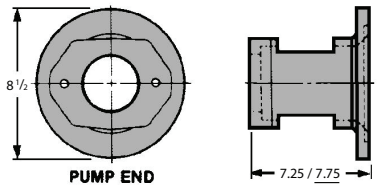
Petrol Engine Bell Housings

Stock No.	Description	Pump Type	HP	Engine Spigot	Bolt Circle	List Price
G18149675	Bell Housing	SAE A 2	9 - 18	Female 177.8 mm	196.8 mm	$ 276.00
G18156675	Bell Housing	SAE B 2	9 - 18	Female 177.8 mm	196.8 mm	$ 276.00
G19170725	Bell Housing	SAE A 2	9 - 25	Female 177.8 mm	196.8 mm	$ 276.00
G22211675	Bell Housing	SAE A 2	9 - 25	Female 200 mm	219.07 mm	$ 312.00
G22212675	Bell Housing	SAE B 2	9 - 25	Female 200 mm	219.07 mm	$ 312.00
G24218925	Bell Housing	SAE A 2	9 - 25	Female 219.07 mm	234.95 mm	$ 515.00
G24219925	Bell Housing	SAE A 2	9 - 25	Female 209.55 mm	234.95 mm	$ 515.00
G24221925	Bell Housing	SAE B 2	9 - 25	Female 200.92 mm	234.95 mm	$ 515.00
G24222925	Bell Housing	SAE B 2	9 - 25	Female 209.55 mm	234.95 mm	$ 515.00



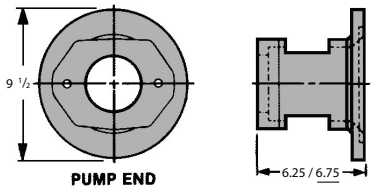
Mount Basic Data
Access Cover AC18 (2 Required)
Maximum Coupling Diameter 3-7/8”
Approximate Weight 7 lb. 8 oz.
SAE A 4 Bolt Available

18	SAE A 2 Bolt	-148	-149	-150	-151	-152	-153	-154
	SAE B 2 Bolt	-155	-156	-157	-158	-159	-160	-161
	SAE B 4 Bolt	-162	-163	-164	-165	-166	-167	-168



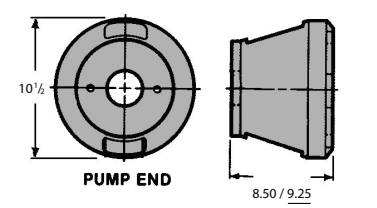
Mount Basic Data
Access Cover AC19 (2 Required)
Maximum Coupling Diameter 3-7/8”
Approximate Weight 8 lb.
SAE A 4 Bolt Available

19	SAE A 2 Bolt	-169	-170	-171	-172	-173	-174	-175



Mount Basic Data
Access Cover AC22 (2 Required)
Maximum Coupling Diameter 3-7/8”
Approximate Weight 8 lb. 3 oz.
SAE A 4 Bolt Available

22	SAE A 2 Bolt	-211
	SAE B 2 Bolt	-212



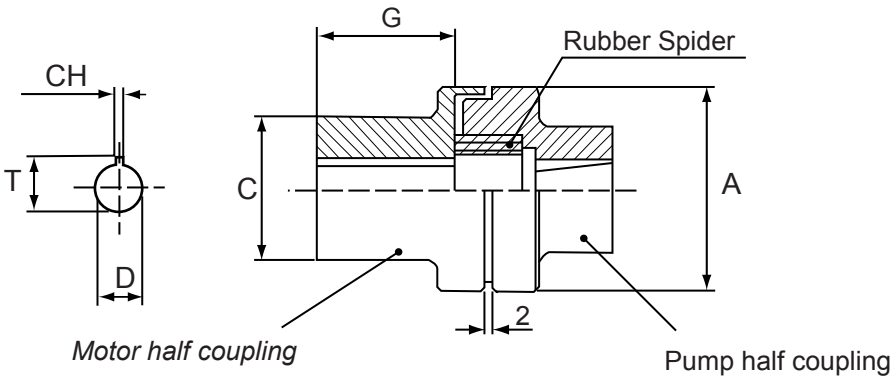
Mount Basic Data
Access Cover AC24 (2 Required)
Maximum Coupling Diameter 7”
Approximate Weight 16 lb. 7 oz.
SAE A 4 Bolt Available

24	SAE A 2 Bolt	-217	-218	-219
	SAE B 2 Bolt	-220	-221	-222
	SAE B 4 Bolt	-223	-224	-25

ND Electric Motor Drive Couplings

Aluminium Drive Coupling Halves - Electric Motor

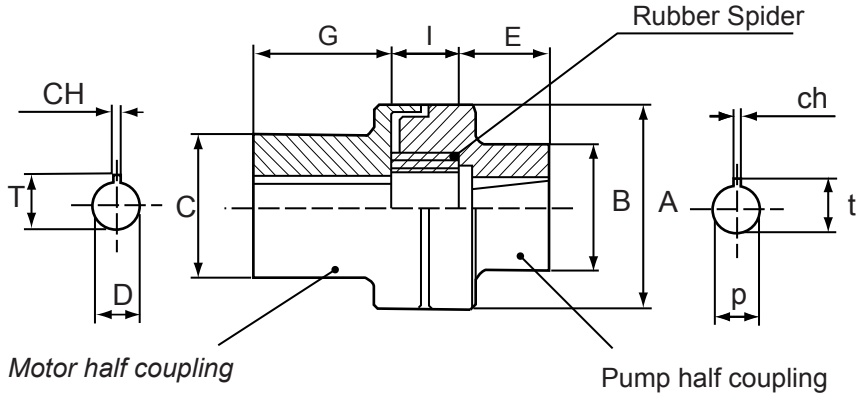
Stock No.	Description	Shaft Dia.	Motor Frame	kW	A	C	G	D	CH	T	List Price
ND48A	Coupling Half	11 mm	D63	0.12 ÷ 0.18	48	30	19	11	4	12.8	$ 14.00
ND48B	Coupling Half	14 mm	D71	0.25 ÷ 0.37	48	30	29	14	5	16.3	$ 15.00
ND48C	Coupling Half	19 mm	D80	0.55 ÷ 0.75	48	38	54	19	6	21.8	$ 18.00
ND48D	Coupling Half	24 mm	D90	1.10 ÷ 1.50	48	38	54	24	8	27.3	$ 18.00
ND65A	Coupling Half	19 mm	D80	0.55 ÷ 0.75	65	42	47.5	19	6	21.8	$ 21.00
ND65B	Coupling Half	24 mm	D90	1.10 ÷ 1.50	65	48	47.5	24	8	27.3	$ 22.00
ND65C	Coupling Half	28 mm	D100/112	2.20 ÷ 4.00	65	53	57.5	28	8	31.3	$ 25.00
ND86HD20	Coupling Half	19 mm	D80	0.55 ÷ 0.75	86	55	48	19	6	21.8	$ 45.00
ND86HD31	Coupling Half	24 mm	D90	1.10 ÷ 1.50	86	55	48	24	8	27.3	$ 45.00
ND86A	Coupling Half	28 mm	D100/112	2.20 ÷ 4.00	86	55	60	28	8	31.3	$ 45.00
ND86B	Coupling Half	38 mm	D132	5.50 ÷ 7.50	86	73	88	38	10	41.3	$ 66.00
NS86BD51	Coupling Half	42 mm	D160	11.0 ÷ 15.0	86	73	88	42	12	45.3	$ 113.00
ND108A	Coupling Half	38 mm	D132	5.50 ÷ 7.50	108	73	77	38	10	41.3	$ 117.00
ND108B	Coupling Half	42 mm	D160	11.0 ÷ 15.0	108	84	110	42	125	45.3	$ 117.00
ND108C	Coupling Half	48 mm	D180	18.5 ÷ 22.0	108	100	110	48	14	51.8	$ 146.00
ND108D	Coupling Half	55 mm	D200	30.0	108	100	110	55	16	59.3	$ 146.00
ND143B	Coupling Half	55 mm	D200	30.0	143	106	110	55	16	59.3	$ 468.00
ND143C	Coupling Half	60 mm	D225	37.0 ÷ 45.0	143	137	140	60	18	64.4	$ 468.00
ND143D	Coupling Half	65 mm	D250	55	143	137	140	65	18	69.4	$ 468.00



ND Petrol Engine Drive Couplings

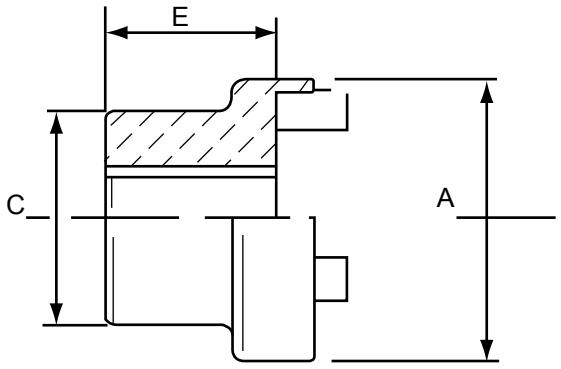
Aluminium Drive Coupling Halves - Petrol Engine Half

Stock No.	Description	Shaft Dia.	A	C	G	D	CH	T	List Price
NS48CC16	Petrol Engine Coupling Half	18 mm	48	33	54	18	5	26.3	$ 45.00
ND48CC22	Petrol Engine Coupling Half	3/4”	48	33	54	19.05	4.76	21.3	$ 35.00
ND65MC33	Petrol Engine Coupling Half	25 mm	65	53	66.5	25	7	28.3	$ 49.00
ND65MC35	Petrol Engine Coupling Half	1”	65	53	66.5	25.4	6.35	28.8	$ 49.00



Aluminium Drive Coupling Halves - Pump Half

Stock No.	Description	Shaft Dia.	A	B	E	I	p	ch	List Price
ND65H4D22	Pump Coupling Half	3/4”	65	42	40	18	19.05	4.76	$ 45.00
ND65H8D99	Pump Coupling Half	7/8”	65	42	40	18	22.22	6.35	$ 45.00



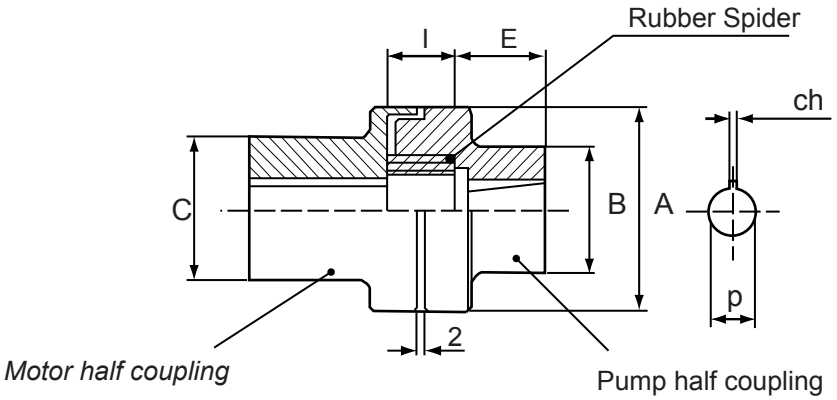
Blank Coupling Halves

Stock No.	Description	Max. Shaft	A	C	E	Spider	List Price
NS48C	Blank Coupling Half	20 mm	48	38	54	R42	$ 30.00
NS65C	Blank Coupling Half	28 mm	65	53	57.5	R62	$ 47.00
NS86B	Blank Coupling Half	38 mm	86	73	88	R82	$ 94.00
NS108C	Blank Coupling Half	50 mm	108	100	110	R103	$ 187.00
NS143C	Blank Coupling Half	75 mm	143	137	140	R132	$ 432.00

ND Pump Drive Couplings

Aluminium Drive Coupling Halves - SAE Pumps

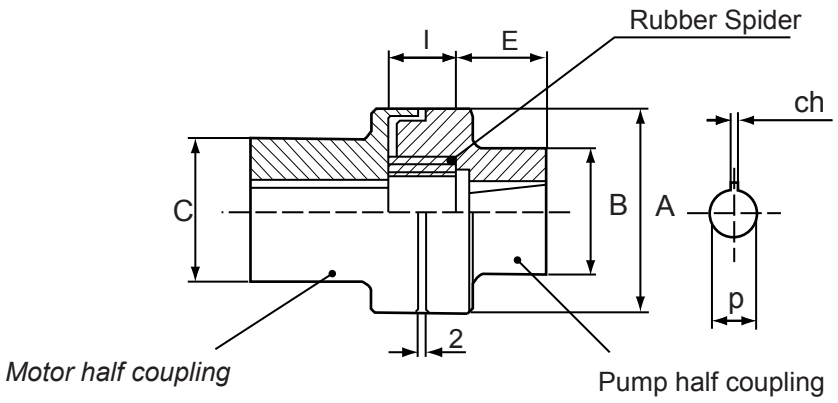
Stock No.	Description	Pump Type	Shaft Dia.	A	B	E	I	p	ch	List Price
ND48HD716	Coupling Half	SAE	7/16”	48	30	17	6	11.11	2.40	$ 37.00
NS48CD62	Coupling Half	SAE	1/2”	48	38	54	16	12.7	3.18	$ 37.00
NS48CD10	Coupling Half	SAE	5/8”	48	38	54	16	15.88	4.00	$ 37.00
ND48CC22	Coupling Half	SAE	3/4”	48	38	54	16	19.05	4.76	$ 35.00
ND65HD716	Coupling Half	SAE	7/16”	65	34	21.5	18	11.11	2.40	$ 43.00
NS65PD62	Coupling Half	SAE	1/2”	65	34	21.5	18	12.7	3.18	$ 24.00
ND65QD10	Coupling Half	SAE	5/8”	65	34	31.5	18	15.88	4.00	$ 35.00
ND65HD22	Coupling Half	SAE	3/4”	65	42	50	18	19.05	4.76	$ 36.00
ND65HD99	Coupling Half	SAE	7/8”	65	42	50	18	22.22	4.76 & 6.35	$ 36.00
NS65CD35	Coupling Half	SAE	1”	65	53	57.5	18	25.4	6.35	$ 49.00
ND86PD10	Coupling Half	SAE	5/8”	86	48	27	20	15.88	4.00	$ 47.00
ND86HD22	Coupling Half	SAE	3/4”	86	55	48	20	19.05	4.76	$ 47.00
ND86HD99	Coupling Half	SAE	7/8”	86	55	48	20	22.22	4.76 & 6.35	$ 47.00
ND86KD35	Coupling Half	SAE	1”	86	64	68	20	25.4	6.35	$ 60.00
NS108A3D10	Coupling Half	SAE	5/8”	108	64	70	24	15.88	4.00	$ 108.00
ND108HD22	Coupling Half	SAE	3/4”	108	64	48	24	19.05	4.76	$ 64.00
ND108HD99	Coupling Half	SAE	7/8”	108	64	48	24	22.22	4.76 & 6.35	$ 64.00
NS108A3D35	Coupling Half	SAE	1”	108	64	70	24	25.4	6.35	$ 99.00
ND108HD98	Coupling Half	SAE	1-1/4”	108	64	48	24	31.75	7.94	$ 64.00
ND108KD48	Coupling Half	SAE	1-1/2”	108	64	70	24	38.1	9.52	$ 64.00
NS143PD99	Coupling Half	SAE	7/8”	143	75	52	29	22.22	4.76 & 6.35	$ 168.00
NS143PD35	Coupling Half	SAE	1”	143	75	52	29	25.4	6.35	$ 168.00
NS143PD98	Coupling Half	SAE	1-1/4”	143	75	52	29	31.75	7.94	$ 168.00
NS143PD48	Coupling Half	SAE	1-1/2”	143	75	52	29	38.1	9.52	$ 168.00
NS143PD52	Coupling Half	SAE	1-3/4”	143	75	52	29	44.45	11.11	$ 168.00



ND Pump Drive Couplings

Aluminium Drive Coupling Halves - Standard DIN Pumps (1:8 Taper)

Stock No.	Description	Pump Type	Shaft Dia.	A	B	E	I	p	ch	List Price
ND48P05M	Coupling Half	Group 05	6 mm	48	30	19	16	6	2	$ 14.00
ND48P05GT	Coupling Half	Group 05	7 mm	48	30	19	16	7	2	$ 13.00
ND48PU1P	Coupling Half	Group 1	1:8 Taper	48	30	17	16	9.7	2.4	$ 15.00
ND65PU1P	Coupling Half	Group 1	1:8 Taper	65	34	21.5	18	9.7	2.4	$ 21.00
ND65P2	Coupling Half	Group 2	1:8 Taper	65	34	21.5	18	17.2	3.2 & 4.0	$ 21.00
ND65Q3U	Coupling Half	Group 3	1:8 Taper	65	48	21.5	18	22.2	4	$ 21.00
ND86P2	Coupling Half	Group 2	1:8 Taper	86	48	27	20	17.2	3.2 & 4.0	$ 31.00
ND86H3U	Coupling Half	Group 3	1:8 Taper	86	55	48	20	22.2	4	$ 48.00
ND86P3U	Coupling Half	Group 3	1:8 Taper	86	48	27	20	22.2	4	$ 33.00
ND108P2	Coupling Half	Group 2	1:8 Taper	108	64	34	24	17.2	3.2 & 4.0	$ 51.00
ND108P3U	Coupling Half	Group 3	1:8 Taper	108	64	34	24	22.2	4	$ 51.00
ND108Q4	Coupling Half	Group 4	1:8 Taper	108	64	34	24	33.3	7	$ 58.00



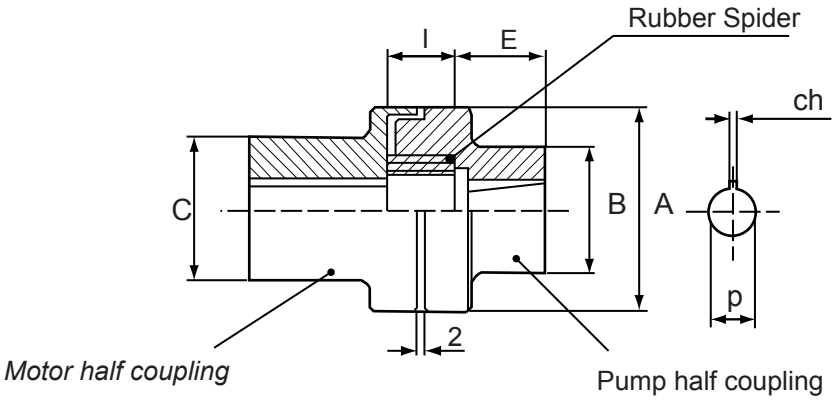
Aluminium Drive Coupling Halves - ISO Pumps (Metric - Parallel)

Stock No.	Description	Pump Type	Shaft Dia.	A	B	E	I	p	ch	List Price
ND65HD24	Coupling Half	ISO 80	20 mm	65	42	50	18	20	6	$ 36.00
ND65HD34	Coupling Half	ISO 100	25 mm	65	42	50	18	25	8	$ 36.00
ND86HD24	Coupling Half	ISO 80	20 mm	86	55	48	20	20	6	$ 48.00
ND86HD34	Coupling Half	ISO 100	25 mm	86	55	48	20	25	8	$ 48.00
ND86KD43	Coupling Half	ISO 125	32 mm	86	64	68	20	32	10	$ 60.00
ND108HD24	Coupling Half	ISO 80	20 mm	108	64	48	24	20	6	$ 62.00
ND108HD34	Coupling Half	ISO 100	25 mm	108	64	48	24	25	8	$ 62.00
ND108KD43	Coupling Half	ISO 125	32 mm	108	64	70	24	32	10	$ 64.00
ND108KD50	Coupling Half	ISO 160	40 mm	108	64	70	24	40	12	$ 92.00
ND143PD43	Coupling Half	ISO 125	32 mm	143	75	52	29	32	10	$ 154.00
ND143PD50	Coupling Half	ISO 160	40 mm	143	75	52	29	40	12	$ 154.00
ND143PD55	Coupling Half	ISO 200	50 mm	143	75	52	29	50	14	$ 154.00

ND Pump Drive Couplings

Aluminium Drive Coupling Halves - Standard Bosch Pumps (1:5 Taper)

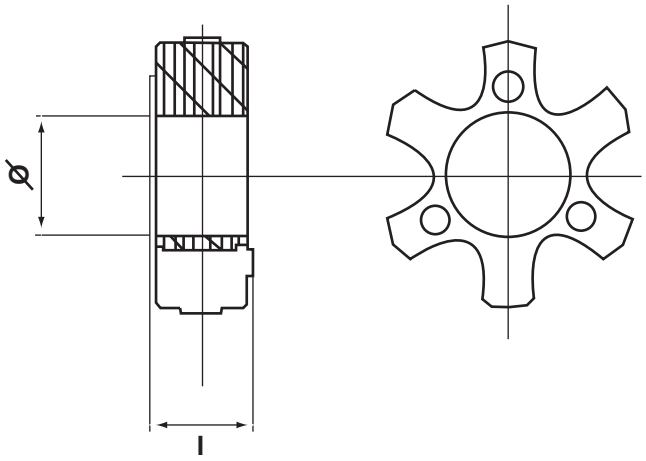
Stock No.	Description	Pump Type	Shaft Dia.	A	B	E	I	p	ch	List Price
ND48PZB	Coupling Half	Type ZB	1:5 Taper	48	30	17	10.2	9.8	2	$ 15.00
ND65PZB	Coupling Half	Type ZB	1:5 Taper	65	34	21.5	10.2	9.8	2	$ 21.00
ND65PZF	Coupling Half	Type ZF	1:5 Taper	65	34	21.5	17.7	16.9	3	$ 21.00
ND65QZF	Coupling Half	Type ZF	1:5 Taper	65	48	31.5	17.7	16.9	3	$ 24.00
ND65QZG	Coupling Half	Type ZG	1:5 Taper	65	48	31.5	26.3	25.2	5	$ 24.00
ND86HZG	Coupling Half	Type ZG	1:5 Taper	86	55	48	26.3	25.2	5	$ 46.00
ND86PZF	Coupling Half	Type ZF	1:5 Taper	86	48	27	17.7	16.9	3	$ 46.00
ND86PZG	Coupling Half	Type ZG	1:5 Taper	86	48	27	26.3	25.2	5	$ 46.00
ND108PZF	Coupling Half	Type ZF	1:5 Taper	108	64	34	17.7	16.9	3	$ 58.00
ND108PZG	Coupling Half	Type ZG	1:5 Taper	108	64	34	26.3	25.2	5	$ 58.00
ND108QZG	Coupling Half	Type ZG	1:5 Taper	108	64	42	26.3	25.2	5	$ 70.00



ND Rubber Spiders

Rubber Spiders

Stock No.	Description	Fits Coupling Series	l	Ø	List Price
R42	Rubber Spider	48 Series Coupling	16	19	$ 10.00
R62	Rubber Spider	65 Series Coupling	18	29	$ 15.00
R82	Rubber Spider	86 Series Coupling	20	31.5	$ 20.00
R103	Rubber Spider	108 Series Coupling	24	42	$ 20.00
R132	Rubber Spider	143 Series Coupling	29	64	$ 40.00



Technical Data

Maximum allowable torque in Nm of coupling halves and maximum misalignment.

Size	Max. Allowable Torque	Kw				Max. Misalignment		
		750	1000	1500	3000	Angle	Radial (mm)	Axial (mm)
ND48	6.86	0.54	0.72	1.1	2.1	2°	0.4	1
ND65	38.2	3	4	6	12		0.5	1.6
ND86	87.3	6.84	9.12	13.7	27.3			1.8
ND108	210	16.5	22	33	65.8			2
ND143	725	57	76	144	228		0.6	2
OMT1	19.62	1.55	2	3	6.1	2°	0.14	1
OMT2	42.2	3.3	4.41	6.6	13.3		0.5	
OMT3	112.8	9.1	12.2	17.7	35.4			
OMT4	186.4	14	19.5	29.2	58.5			
OMT5	269.8	21.2	28.2	42.3	84.5			
OMT6	412	32.8	43	64.7	130		.06	

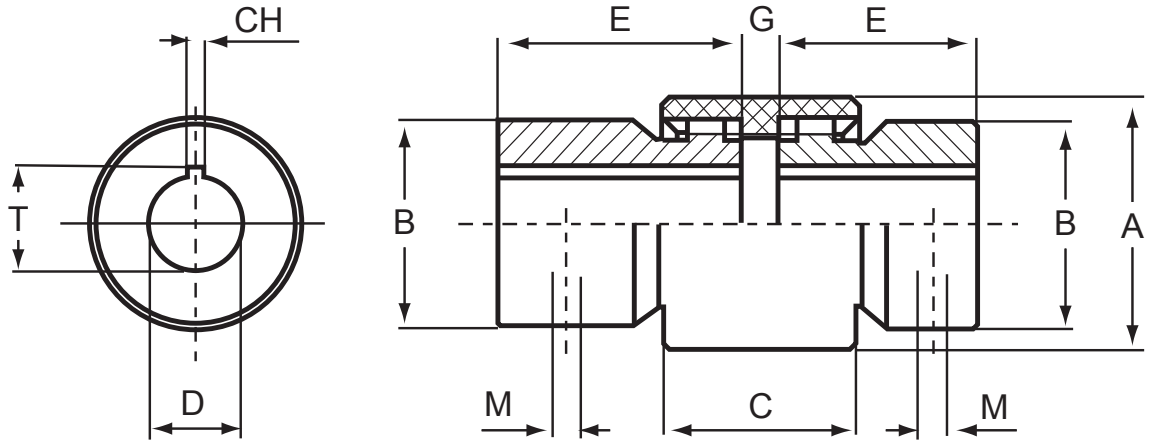
OMT Steel Drive Couplings

Steel Flexible Drive Coupling Halves - Electric Motor

Stock No.	Description	Shaft Dia.	Motor Frame	B	E	D	CH	T	G	List Price
OMT2040C20	Coupling Half	19 mm	D80	45	40	19	6	21.8	4	$ 41.00
OMT2050C31	Coupling Half	24 mm	D90	45	50	24	8	27.3	4	$ 41.00
OMT3060C36	Coupling Half	28 mm	D100/112	57	60	28	8	31.3	4	$ 55.00
OMT4080C36	Coupling Half	28 mm	D100/112	69	80	28	8	31.3	4	$ 86.00
OMT4080C47	Coupling Half	38 mm	D132	69	80	38	10	41.3	4	$ 86.00
OMT5110C51	Coupling Half	42 mm	D160	81	110	42	12	45.3	4	$ 138.00
OMT5110C54	Coupling Half	48 mm	D180	81	110	48	14	51.8	4	$ 138.00
OMT6110C56	Coupling Half	55 mm	D200	99	110	55	16	59.3	8	$ 253.00
OMT6140C57	Coupling Half	60 mm	D225	99	140	60	18	64.4	8	$ 304.00

Steel Flexible Drive Coupling Halves - SAE Pumps Parallel

Stock No.	Description	Shaft Dia.	Pump Type	B	E	D	CH	T	G	List Price
OMT2040D62	Coupling Half	1/2”	SAE	45	40	12.7	3.18	13.8	4	$ 41.00
OMT2040D10	Coupling Half	5/8”	SAE	45	40	15.88	4	17.7	4	$ 41.00
OMT2040D22	Coupling Half	3/4”	SAE	45	40	19.05	4.76	21.3	4	$ 41.00
OMT2040D28	Coupling Half	7/8”	SAE	45	40	22.22	6.35	25	4	$ 41.00
OMT3040D10	Coupling Half	5/8”	SAE	57	40	15.88	4	17.7	4	$ 64.00
OMT3040D22	Coupling Half	3/4”	SAE	57	40	19.05	4.76	21.3	4	$ 64.00
OMT3040D28	Coupling Half	7/8”	SAE	57	40	22.22	6.35	25	4	$ 64.00
OMT4040D10	Coupling Half	5/8”	SAE	69	40	15.88	4	17.7	4	$ 72.00
OMT4040D22	Coupling Half	3/4”	SAE	69	40	19.05	4.76	21.3	4	$ 72.00
OMT4040D28	Coupling Half	7/8”	SAE	69	40	22.22	6.35	25	4	$ 72.00
OMT4040D35	Coupling Half	1”	SAE	69	40	25.4	6.35	28.8	4	$ 72.00
OMT4040D40	Coupling Half	1-1/4”	SAE	69	40	31.75	7.94	35.5	4	$ 72.00
OMT5060D10	Coupling Half	5/8”	SAE	81	60	15.88	4	17.7	4	$ 138.00
OMT5060D28	Coupling Half	7/8”	SAE	81	60	22.22	6.35	25	4	$ 138.00
OMT5060D35	Coupling Half	1”	SAE	81	60	25.4	6.35	28.8	4	$ 138.00
OMT5060D40	Coupling Half	1-1/4”	SAE	81	60	31.75	7.94	35.5	4	$ 173.00
OMT6080D28	Coupling Half	7/8”	SAE	99	80	22.22	6.35	25	8	$ 197.00
OMT6080D35	Coupling Half	1”	SAE	99	80	25.4	6.35	28.8	8	$ 197.00
OMT6080D40	Coupling Half	1-1/4”	SAE	99	80	31.75	7.94	35.5	8	$ 197.00



OMT Steel Drive Couplings

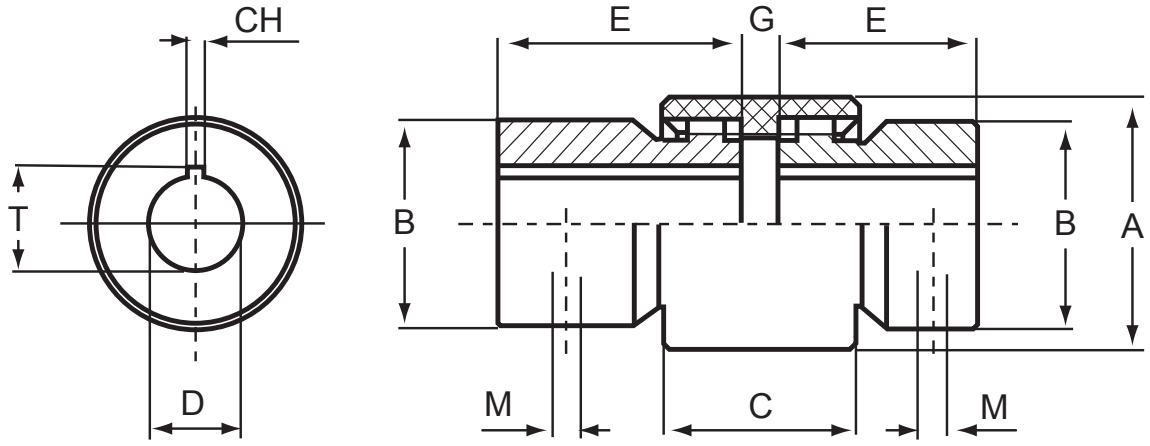
Steel Flexible Drive Coupling Halves - SAE Spline

Stock No.	Description	Shaft Dia.	Pump Type	B	E	D	Teeth	List Price
OMT2040SE07	Coupling Half	5/8" 9T	SAE	45	40	15.88	9	$ 76.00
OMT2040SE10	Coupling Half	7/8" 13T	SAE	45	40	22.22	13	$ 76.00
OMT3040SE07	Coupling Half	5/8" 9T	SAE	57	40	15.88	9	$ 78.00
OMT3040SE08	Coupling Half	3/4" 11T	SAE	57	40	19.05	11	$ 78.00
OMT3040SE10	Coupling Half	7/8" 13T	SAE	57	40	22.22	13	$ 78.00
OMT4040SE07	Coupling Half	5/8" 9T	SAE	69	40	15.88	9	$ 108.00
OMT4040SE08	Coupling Half	3/4" 11T	SAE	69	40	19.05	11	$ 108.00
OMT4040SE10	Coupling Half	7/8" 13T	SAE	69	40	22.22	13	$ 108.00
OMT4040SE11	Coupling Half	1" 15T	SAE	69	40	25.4	15	$ 108.00
OMT4040SE04	Coupling Half	1-1/4" 14T	SAE	69	40	31.75	14	$ 185.00
OMT5060SE07	Coupling Half	5/8" 9T	SAE	81	60	15.88	9	$ 185.00
OMT5060SE08	Coupling Half	3/4" 11T	SAE	81	60	19.05	11	$ 185.00
OMT5060SE10	Coupling Half	7/8" 13T	SAE	81	60	22.22	13	$ 185.00
OMT5060SE11	Coupling Half	1" 15T	SAE	81	60	25.4	15	$ 185.00
OMT5060SE04	Coupling Half	1-1/4" 14T	SAE	81	60	31.75	14	$ 185.00
OMT6080SE10	Coupling Half	7/8" 13T	SAE	99	80	22.22	13	$ 197.00
OMT6080SE11	Coupling Half	1" 15T	SAE	99	80	25.4	15	$ 197.00
OMT6080SE04	Coupling Half	1-1/4" 14T	SAE	99	80	31.75	14	$ 197.00

Plastic Driving Ring

Stock No.	Description	Suits	Max. Torque	C	A	G	List Price
POL1	Polymide 6.6 Ring	OMT1	19.62 Nm	40	40	4	$ 13.00
POL2	Polymide 6.6 Ring	OMT2	42.2 Nm	42	55	4	$ 13.00
POL3	Polymide 6.6 Ring	OMT3	112.8 Nm	45	70	4	$ 20.00
POL4	Polymide 6.6 Ring	OMT4	186.4 Nm	48	86	4	$ 48.00
POL5	Polymide 6.6 Ring	OMT5	269.8 Nm	50	102	4	$ 64.00
POL6	Polymide 6.6 Ring	OMT6	412 Nm	72	150	8	$ 76.00

Note: These rings do not interchange with UCC UCDCS sleeves.



LOV Steel Flexible Drive Couplings

Steel Flexible Drive Couplings - LOV Series

Stock No.	Description	Shaft Dia.	Rated Torque In-Lbs	HP @ RPM				Max. Speed	List Price
				300	1200	1800	3600	RPM	
LOV075500	Engine Shaft Coupling Half	1/2”	75.6	0.36	1.44	2.16	4.32	11000	$ 55.00
LOV075750	Engine Shaft Coupling Half	3/4”	75.6	0.36	1.44	2.16	4.32	11000	$ 55.00
LOV075875	Engine Shaft Coupling Half	7/8”	75.6	0.36	1.44	2.16	4.32	11000	$ 55.00
LOV075M16	Engine Shaft Coupling Half	16 mm	75.6	0.36	1.44	2.16	4.32	11000	$ 55.00
LOV075M20	Engine Shaft Coupling Half	20 mm	75.6	0.36	1.44	2.16	4.32	11000	$ 55.00
LOV075437	Pump Shaft Coupling Half	7/16”	75.6	0.36	1.44	2.16	4.32	11000	$ 55.00
LOV09525	Engine Shaft Coupling Half	25 mm	176.0	0.84	3.36	5.04	10.08	9000	$ 110.00
LOV095028	Engine Shaft Coupling Half	28 mm	176.0	0.84	3.36	5.04	10.08	9000	$ 110.00
LOV095500	Engine Shaft Coupling Half	1/2”	176.0	0.84	3.36	5.04	10.08	9000	$ 110.00
LOV0951000	Engine Shaft Coupling Half	1”	176.0	0.84	3.36	5.04	10.08	9000	$ 110.00
LOV0951125	Engine Shaft Coupling Half	1-1/8”	176.0	0.84	3.36	5.04	10.08	9000	$ 110.00
LOV095437	Pump Shaft Coupling Half	7/16”	176.0	0.84	3.36	5.04	10.08	9000	$ 110.00
LOV095625	Pump Shaft Coupling Half	5/8”	176.0	0.84	3.36	5.04	10.08	9000	$ 110.00

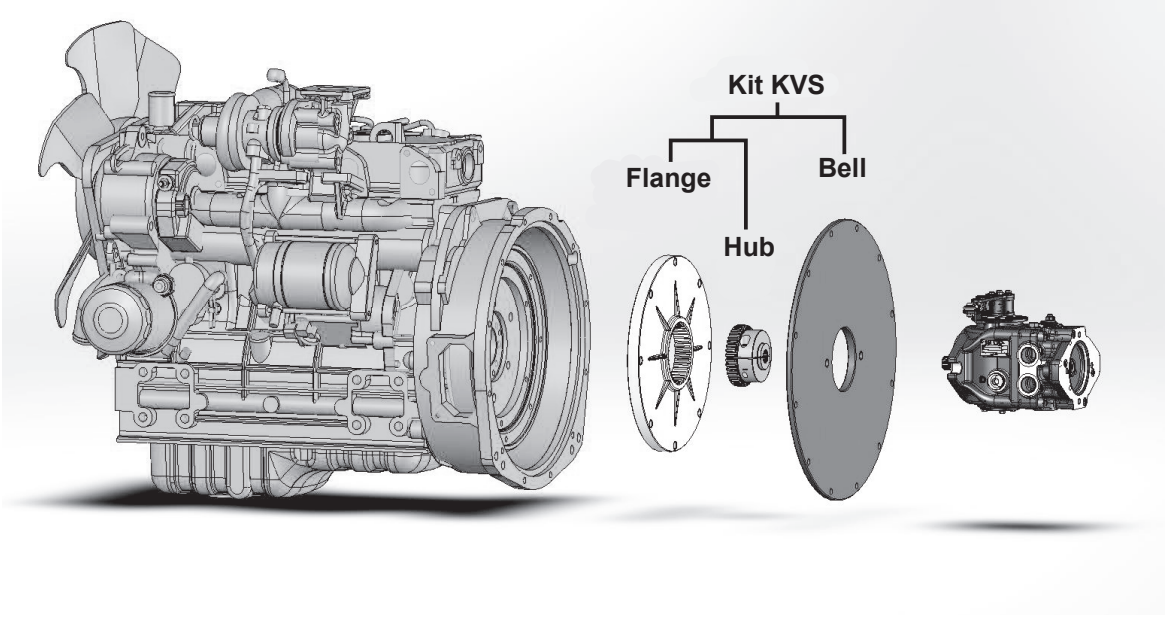
Rubber Spider

LOV075SOX	Rubber Spider	Fits all LOV075 Couplings	$ 37.00
LOV095SOX	Rubber Spider	Fits all LOV095 Couplings	$ 43.00

Diesel Drive Kits

Nominal Torque 300 Nm

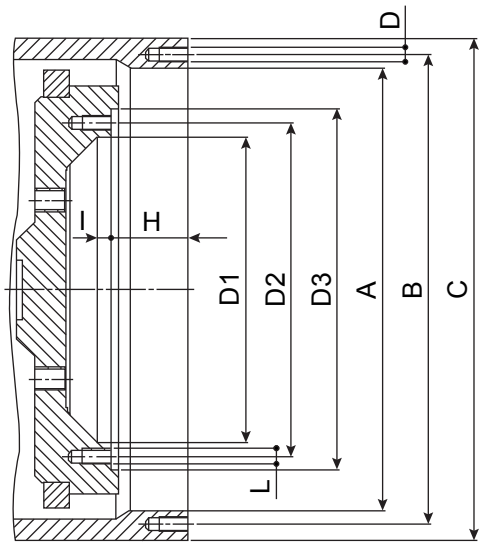
Stock No.	SAE Size	Flange Size	Pump Mount	Pump Shaft	List Price
HMFAAA001ABG	SAE 5	6-1/2”	SAE A	5/8” 9T Spline	$ 995.00
HMFAAA001AOG	SAE 5	6-1/2”	SAE A	3/4” 11T Spline	$ 995.00
HMFAAA001AFB	SAE 5	6-1/2”	SAE A	7/8” 13T Spline	$ 995.00
HMFATM001AOA	SAE 5	6-1/2”	GRP 2	1 : 8 Taper	$ 995.00
HMFADA001AFB	SAE 5	6-1/2”	SAE B	7/8” 13T Spline	$ 995.00
HMFADA001AMB	SAE 5	6-1/2”	SAE B	7/8” Keyed	$ 995.00
HMFADA001AHC	SAE 5	6-1/2”	SAE B	1” 15T Spline	$ 995.00
HMFAAA002ABG	SAE 5	7-1/2”	SAE A	5/8” 9T Spline	$ 995.00
HMFAAA002ADB	SAE 5	7-1/2”	SAE A	3/4” 11T Spline	$ 995.00
HMFATM002AOA	SAE 5	7-1/2”	GRP 2	1 : 8 Taper	$ 995.00
HMFADA002AFB	SAE 5	7-1/2”	SAE B	7/8” 13T Spline	$ 995.00
HMFADA002AMB	SAE 5	7-1/2”	SAE B	7/8” Keyed	$ 995.00
HMFADA002AHC	SAE 5	7-1/2”	SAE B	1” 15T Spline	$ 995.00
HMFATC002AOG	SAE 5	7-1/2”	GRP 3	1 : 8 Taper	$ 995.00
HMFAAB001ABG	SAE 4	6-1/2”	SAE A	5/8” 9T Spline	$ 995.00
HMFAAB001ADB	SAE 4	6-1/2”	SAE A	3/4” 11T Spline	$ 995.00
HMFASB001AOA	SAE 4	6-1/2”	GRP 2	1 : 8 Taper	$ 995.00
HMFACA001AFB	SAE 4	6-1/2”	SAE B	7/8” 13T Spline	$ 995.00
HMFACA001AMB	SAE 4	6-1/2”	SAE B	7/8” Keyed	$ 995.00
HMFACA001AHC	SAE 4	6-1/2”	SAE B	1” 15T Spline	$ 995.00
HMFAAB002ABG	SAE 4	7-1/2”	SAE A	5/8” 9T Spline	$ 995.00
HMFAAB002ADB	SAE 4	7-1/2”	SAE A	3/4” 11T Spline	$ 995.00
HMFASB002AOA	SAE 4	7-1/2”	GRP 2	1 : 8 Taper	$ 995.00
HMFACA002AFB	SAE 4	7-1/2”	SAE B	7/8” 13T Spline	$ 995.00
HMFACA002AMB	SAE 4	7-1/2”	SAE B	7/8” Keyed	$ 995.00
HMFACA002AHC	SAE 4	7-1/2”	SAE B	1” 15T Spline	$ 995.00



Diesel Drive Kits

Nominal Torque 670 Nm

Stock No.	SAE Size	Flange Size	Pump Mount	Pump Shaft	List Price
HMFACA004CAC	SAE 4	7-1/2”	SAE B	7/8” 13T Spline	$ 995.00
HMFACA004CDD	SAE 4	7-1/2”	SAE B	1” 15T Spline	$ 995.00
HMFAHD004CBM	SAE 4	7-1/2”	SAE C 2B	1-1/4” 14T Spline	$ 995.00
HMFAHA004CBM	SAE 4	7-1/2”	SAE C 4B	1-1/4” 14T Spline	$ 995.00
HMFACA005CAE	SAE 4	8”	SAE B	7/8” 13T Spline	$ 995.00
HMFACA005CDE	SAE 4	8”	SAE B	1” 15T Spline	$ 995.00
HMFACA006CAA	SAE 4	10”	SAE B	7/8” 13T Spline	$ 995.00
HMFACA006CDA	SAE 4	10”	SAE B	1” 15T Spline	$ 995.00
HMFABA006CAC	SAE 3	10”	SAE B	7/8” 13T Spline	$ 995.00
HMFABA006CDD	SAE 3	10”	SAE B	1” 15T Spline	$ 995.00
HMFABA008CAC	SAE 3	11-1/2”	SAE B	7/8” 13T Spline	$ 995.00
HMFABA008CDD	SAE 3	11-1/2”	SAE B	1” 15T Spline	$ 995.00



FLYWHEEL SAE J620D							
TYPE	D1 mm (in)	D2 mm (in)	D3 mm (in)	L	No. Holes	H mm (in)	I mm (in)
6-1/2”	184.20 (7.25)	200.02 (7.875)	215.9 (8.5)	5/16-18	6	30.2 (1.19)	9.7 (0.38)
7-1/2”	206.20 (8.12)	222.25 (8.75)	241.3 (9.5)	5/16-18	8	30.2 (1.19)	12.7 (0.50)
8”	225.60 (8.88)	244.48 (9.625)	263.52 (10.375)	3/8-16	6	62.0 (2.44)	12.7 (0.50)
10”	276.40 (10.88)	295.28 (11.625)	314.32 (12.375)	3/8-16	8	53.8 (2.12)	12.7 (0.50)
11-1/2”	314.50 (12.38)	333.38 (13.125)	352.42 (13.875)	3/8-16	8	39.6 (1.56)	22.4 (0.88)

FLYWHEEL HOUSING SAE J617C					
TYPE	A mm (in)	B mm (in)	C mm (in)	D	No. Holes
6	266.70 (10.500)	285.75 (11.250)	307.8 (12.12)	3/8-16	8
5	314.32 (12.375)	333.38 (13.125)	355.6 (14.00)	3/8-16	8
4	361.95 (14.250)	381.00 (15.000)	403.4 (15.88)	3/8-16	12
3	409.58 (16.125)	428.62 (16.875)	450.8 (17.75)	3/8-16	12

Section 15
Breakaway Couplers

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Intertraco	Breakaway Coupler Assemblies	15.04
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Intertraco	Breakaway Coupler Assemblies	15.06
Intertraco	Swivel Joints Straight & 90°	15.07
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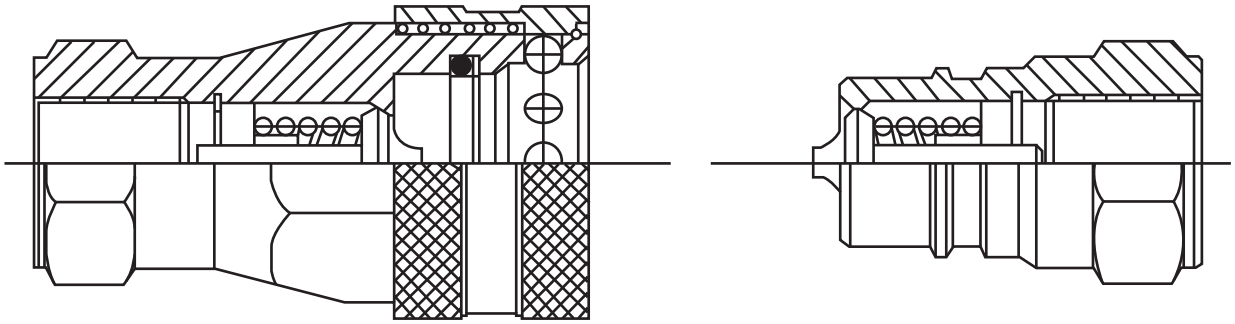
MAKE	MODEL	PAGE

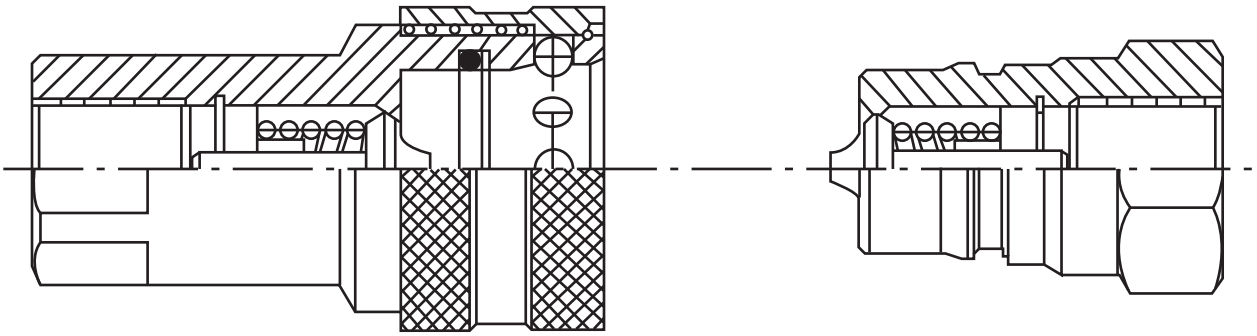
Breakaway Coupler Assemblies



Series A

Series A is designed to interchange and perform according to ISO 7241-A standard. It is one of the most popular coupling design worldwide and is suitable for various mobile and industrial applications.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4” BSPP	350 BAR	Poppet	AF1004	$ 26.00	AM1004	$ 14.00	AC1004	$ 40.00
3/8” BSPP	315 BAR	Poppet	AF1006	$ 26.00	AM1006	$ 14.00	AC1006	$ 40.00
1/2” BSPP	250 BAR	Poppet	AF1008	$ 29.00	AM1008	$ 15.00	AC1008	$ 44.00
3/4” BSPP	250 BAR	Poppet	AF1012	$ 63.00	AM1012	$ 25.00	AC1012	$ 88.00
1” BSPP	230 BAR	Poppet	AF1016	$ 99.00	AM1016	$ 41.00	AC1016	$ 140.00
1-1/4” BSPP	230 BAR	Poppet	AF1020	$ 262.00	AM1020	$ 154.00	AC1020	$ 416.00
1-1/2” BSPP	190 BAR	Poppet	AF1024	$ 468.00	AM1024	$ 232.00	AC1024	$ 700.00
2” BSPP	130 BAR	Poppet	AF1032	$ 917.00	AM1032	$ 492.00	AC1032	$ 1409.00

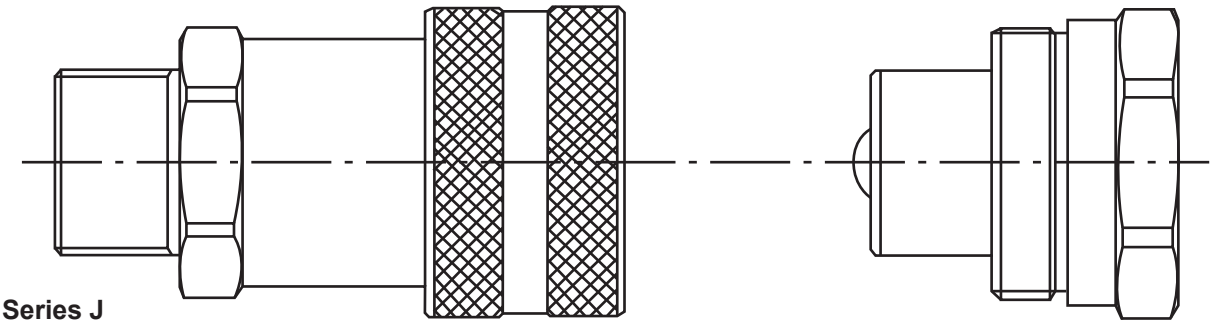


Series B

Series B is designed to interchange and perform according to ISO 7241-B standard. It is one of the most popular coupling design worldwide and is suitable for various industrial applications.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/8” BSPP	350 BAR	Poppet	BF1002	$ 38.00	BM1002	$ 17.00	BC1002	$ 55.00
1/4” BSPP	350 BAR	Poppet	BF1004	$ 38.00	BM1004	$ 17.00	BC1004	$ 55.00
3/8” BSPP	315 BAR	Poppet	BF1006	$ 44.00	BM1006	$ 22.00	BC1006	$ 66.00
1/2” BSPP	250 BAR	Poppet	BF1008	$ 54.00	BM1008	$ 21.00	BC1008	$ 75.00
3/4” BSPP	250 BAR	Poppet	BF1012	$ 97.00	BM1012	$ 45.00	BC1012	$ 142.00
1” BSPP	230 BAR	Poppet	BF1016	$ 148.00	BM1016	$ 67.00	BC1016	$ 215.00

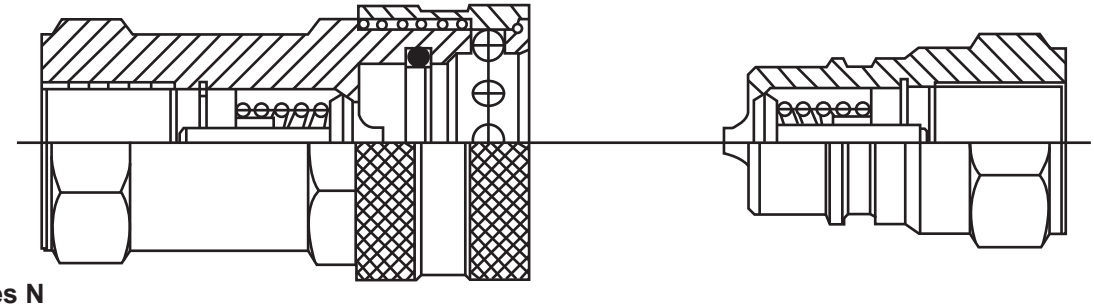
Breakaway Coupler Assemblies



Series J

J Series includes screw to connect couplings designed to match the very high pressures used for hydraulic tools.

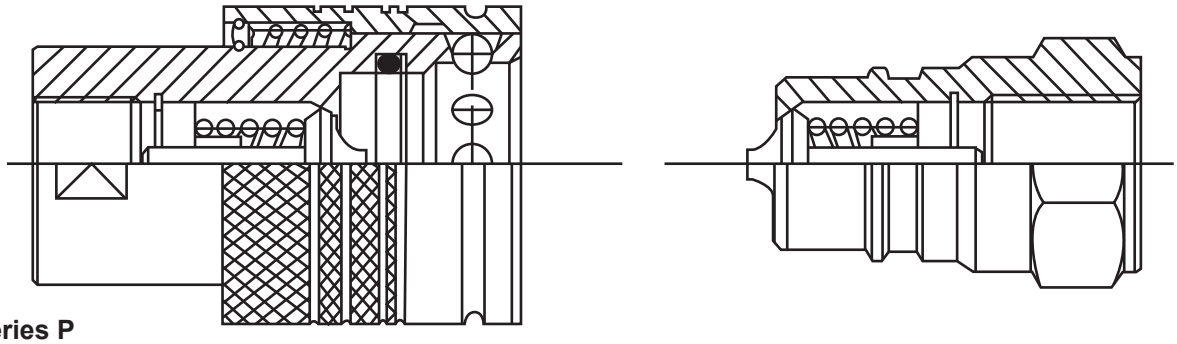
Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4” NPT	700 BAR	Ball	JF2504	$ 68.00	JM2504	$ 36.00	JC2504	$ 104.00
3/8” NPT	700 BAR	Ball	JF2506	$ 68.00	JM2506	$ 36.00	JC2506	$ 104.00



Series N

Series N design, also known as agricultural interchange, is probably the most popular coupling design worldwide on agricultural applications. The 1/2” size is identical to series A, ISO 7241-A interchangeable.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4” BSPP	350 bar	Poppet	NF1004	$ 26.00	NM1004	$ 14.00	NC1004	$ 40.00
3/8” BSPP	315 bar	Poppet	NF1006	$ 26.00	NM1006	$ 14.00	NC1006	$ 40.00
1/2” BSPP	250 bar	Poppet	AF1008	$ 29.00	AM1008	$ 15.00	AC1008	$ 44.00
3/4” BSPP	250 bar	Poppet	NF1012	$ 61.00	NM1012	$ 25.00	NC1012	$ 86.00
1” BSPP	230 bar	Poppet	NF1016	$ 99.00	NM1016	$ 41.00	NC1016	$ 140.00

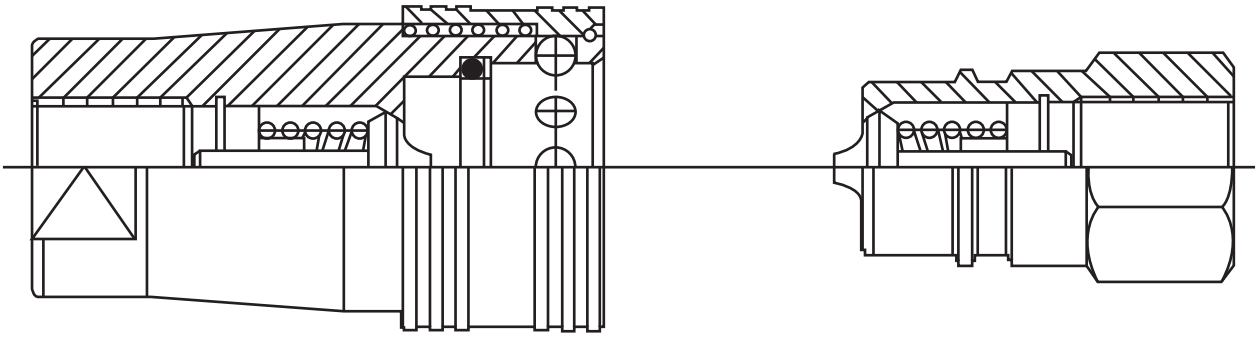


Series P

The P series push-pull couplings are interchangeable according to ISO 7241-A and ISO 5675.
These couplings are normally adopted on agricultural implements and applications; the possibility of panel mounting allows easy connect and disconnect plug and socket with one hand only.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/2” BSPP	250 BAR	Poppet	PF1008	$ 35.00	AM1008	$ 15.00	PC1008	$ 50.00

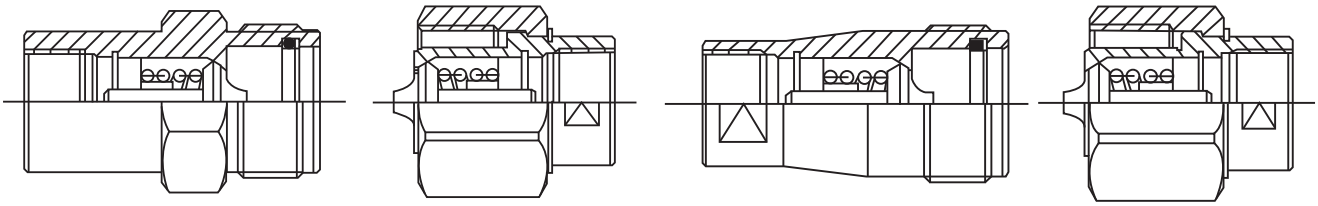
Breakaway Coupler Assemblies



Series E

Series E includes large diameter couplings which find their ideal application in medium pressure hydraulic and industrial applications.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1-1/4” BSPP	140 BAR	Poppet	EF1020	$ 208.00	EM1020	$ 104.00	EC1020	$ 312.00
1-1/2” BSPP	120 BAR	Poppet	EF1024	$ 247.00	EM1024	$ 115.00	EC1024	$ 362.00
2” BSPP	120 BAR	Poppet	EF1032	$ 614.00	EM1032	$ 332.00	EC1032	$ 946.00
2-1/2” BSPP	100 BAR	Poppet	EF1040	$ 718.00	EM1040	$ 352.00	EC1040	$ 1070.00
3” BSPP	70 BAR	Poppet	EF1050	$ 2390.00	EM1050	$ 1164.00	EC1050	$ 3554.00



3/4” <=

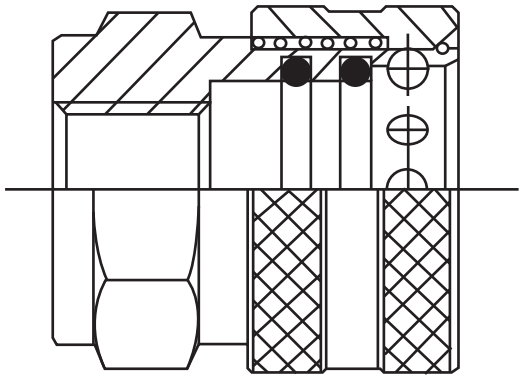
1” =>

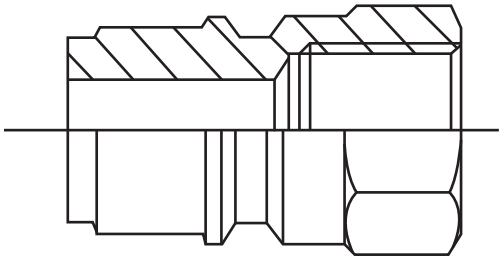
Series S

Series S is a screw to connect coupling range available in sizes from 1/4” to 2-1/2”. This series is used in heavy-duty hydraulic and industrial applications in presence of high pressure, vibrations and mechanical stress.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4” BSPP	500 BAR	Poppet	SF1004	$ 24.00	SM1004	$ 28.00	SC1004	$ 52.00
3/8” BSPP	450 BAR	Poppet	SF1006	$ 28.00	SM1006	$ 28.00	SC1006	$ 56.00
1/2” BSPP	400 BAR	Poppet	SF1008	$ 44.00	SM1008	$ 44.00	SC1008	$ 88.00
3/4” BSPP	350 BAR	Poppet	SF1012	$ 48.00	SM1012	$ 45.00	SC1012	$ 93.00
1” BSPP	300 BAR	Poppet	SF1016	$ 74.00	SM1016	$ 104.00	SC1016	$ 178.00
1-1/4” BSPP	250 BAR	Poppet	SF1020	$ 139.00	SM1020	$ 175.00	SC1020	$ 314.00
1-1/2” BSPP	220 BAR	Poppet	SF1024	$ 186.00	SM1024	$ 246.00	SC1024	$ 432.00
2” BSPP	150 BAR	Poppet	SF1032	$ 435.00	SM1032	$ 543.00	SC1032	$ 978.00
2-1/2” BSPP	120 BAR	Poppet	SF1040	$ 495.00	SM1040	$ 590.00	SC1040	$ 1085.00

Breakaway Coupler Assemblies

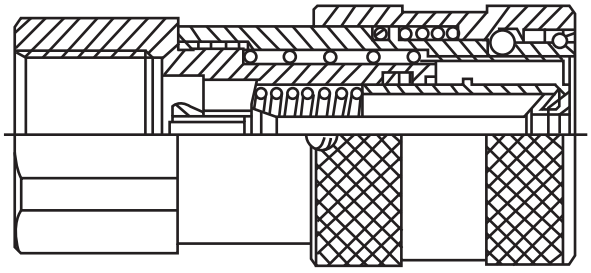


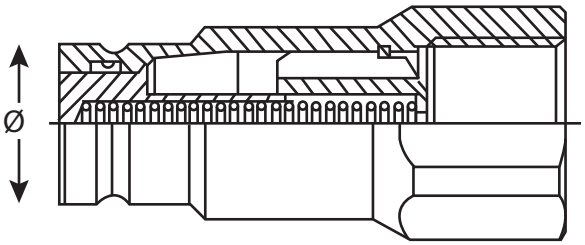


Series PW

Series PW includes free flow couplings for water, steam and other media used in industrial applications.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
3/8” BSPP	250 BAR	None	PWF0006	$ 31.00	PWM0006	$ 13.00	PWC0006	$ 44.00



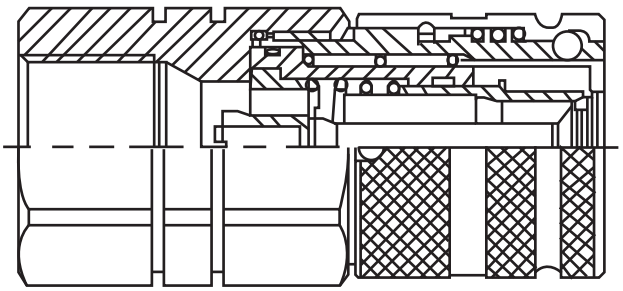


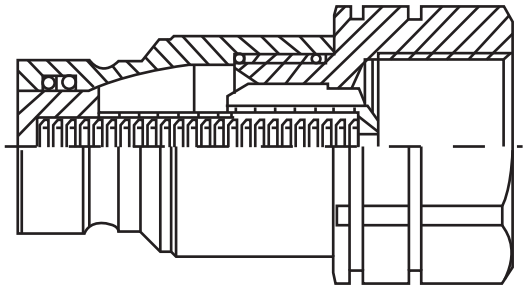
Series F

Series F flat face couplings are adopted on the most diversified hydraulic and industrial applications.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Ø mm	Complete Assembly	List Price
1/4” BSPP	300 BAR	Poppet	FF1004	$ 71.00	FM1004	$ 35.00	16.15	FC1004	$ 106.00
3/8” BSPP	300 BAR	Poppet	FF1006	$ 79.00	FM1006	$ 41.00	19.7	FC1006	$ 120.00
1/2” BSPP	250 BAR	Poppet	FF1008	$ 83.00	FM1008	$ 45.00	19.7	FC1008	$ 128.00
1/2” BSPP	250 BAR	Poppet	FF2008	$ 112.00	FM2008	$ 79.00	24.5	FC2008	$ 191.00
3/4” BSPP	250 BAR	Poppet	FF1012	$ 115.00	FM1012	$ 83.00	24.5	FC1012	$ 198.00
3/4” BSPP	250 BAR	Poppet	FF2012	$ 173.00	FM2012	$ 112.00	27.0	FC2012	$ 285.00
1” BSPP	250 BAR	Poppet	FF1016	$ 306.00	FM1016	$ 168.00	29.9	FC1016	$ 474.00
1-1/4” BSPP	250 BAR	Poppet	FF1020	$ 415.00	FM1020	$ 247.00	36.0	FC1020	$ 662.00
1-1/2” BSPP	200 BAR	Poppet	FF1024	$ 1050.00	FM1024	$ 606.00	57.0	FC1024	$ 1656.00
2” BSPP	180 BAR	Poppet	FF1032	$ 1655.00	FM1032	$ 1005.00	72.0	FC1032	$ 2660.00

Breakaway Coupler Assemblies





Series FA

Series FA flat face couplings are adopted on the most diversified hydraulic and industrial applications.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/2” BSPP	375 BAR	Poppet	FAF1008	$ 120.00	FAM1008	$ 53.00	FAC1008	$ 173.00
1/2” BSPP	350 BAR	Poppet	FAF2008	$ 143.00	FAM2008	$ 92.00	FAC2008	$ 235.00
3/4” BSPP	350 BAR	Poppet	FAF1012	$ 150.00	FAM1012	$ 95.00	FAC1012	$ 245.00
3/4” BSPP	350 BAR	Poppet	FAF2012	$ 284.00	FAM2012	$ 129.00	FAC2012	$ 413.00
1” BSPP	350 BAR	Poppet	FAF1016	$ 426.00	FAM1016	$ 209.00	FAC1016	$ 635.00

Swivel Joints Straight & 90°

Series SJ

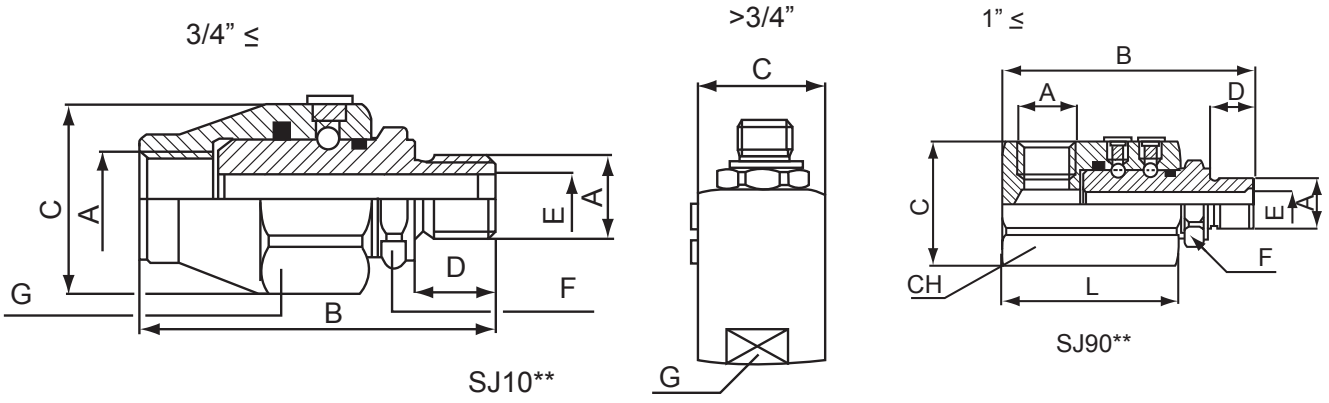
The series SJ swivel joints are designed to be mounted between a hose assembly and a rigid component in order to allow and compensate occasional rotations, preventing hose damages. The swivel joint rotation is based on one or two rows of radial balls (one row up to size 1/2" included).

- Standard seals in nitril rubber
- Working temperatures with standard seals: -20°C /+110°C
- Standard thread: BSP (Gas)
- Special materials on request: AISI 303, AISI 316, Brass
- Special seals on request: Viton, EPDM, Silicone
- Special thread on request: NPTF, Metric, UNF

IMPORTANT: SJ series is not suitable for continuous or fast rotation.

Straight Swivel Joints

Stock No.	Dimensions (mm)							Max Pressure in Rotation		Static Max Pressure		List Price
	A	B	C	D	E	F	G	bar	psi	bar	psi	
SJ1004	1/4"	61	33	11	6.5	ES19	ES30	200	2900	400	5800	$ 44.00
SJ1006	3/8"	66	37	14	9.0	ES24	ES34	200	2900	400	5800	$ 48.00
SJ1008	1/2"	70	42	15	12.0	ES27	ES36	150	2175	300	4350	$ 53.00
SJ1012	3/4"	79	50	19	16.0	ES34	ES45	150	2175	300	4350	$ 85.00
SJ1016	1"	90	Ø55	21	20.0	ES41	CH50	100	1450	300	4350	$ 124.00

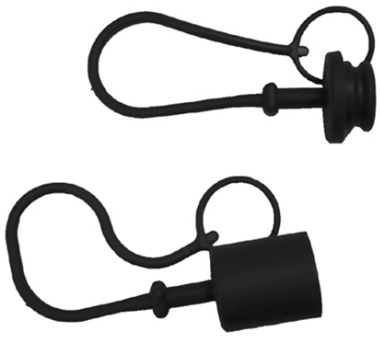


90 Degree Swivel Joints

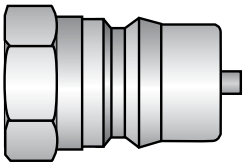
Stock No.	Dimensions (mm)								Max Pressure in Rotation		Static Max Pressure		List Price
	A	B	C	D	E	F	G	CH	bar	psi	bar	psi	
SJ9004	1/4"	69	30.5	11	6.5	ES19	58.0	ES30	200	2900	400	5800	$ 55.00
SJ9006	3/8"	78	41.5	14	9.0	ES24	63.0	ES36	200	2900	400	5800	$ 54.00
SJ9008	1/2"	86	44	15	12.0	ES27	68.5	ES38	150	2175	300	4350	$ 67.00
SJ9012	3/4"	99	58	19	16.0	ES34	79.0	ES50	150	2175	300	4350	$ 112.00
SJ9016	1"	113	Ø60	21	20.0	ES41	90.0	Ø60	100	1450	300	4350	$ 154.00

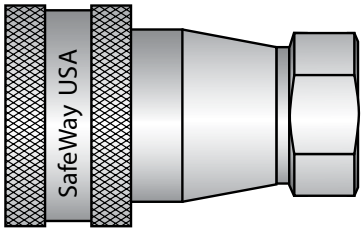
Dust Caps & Plugs

Series Type	Complete Coupler No.	Dust Plug (Protects Body)	List Price	Dust Cap (Protects Tip)	List Price	Colour
Series A ISO	AC1004	TAMR04	$ 4.50	TAFR04	$ 4.50	
	AC1006	TAMR06	$ 4.50	TAFR06	$ 4.50	
	AC1008	TAMR08	$ 4.50	TAFR08	$ 4.50	Red
	AC1008	TAMR08B	$ 4.50	TAFR08B	$ 4.50	Black
	AC1008	TAMR08G	$ 4.50	TAFR08G	$ 4.50	Green
	AC1008	TAMR08W	$ 4.50	TAFR08W	$ 4.50	White
	AC1008	TAMR08Y	$ 4.50	TAFR08Y	$ 4.50	Yellow
	AC1012	TAMR12	$ 6.50	TAFR12	$ 7.00	
	AC1016	TAMR16	$ 8.50	TAFR16	$ 9.00	
Series N	NC1004	TNMR04	$ 4.50	TNFR04	$ 4.50	
	NC1006	TNMR06	$ 4.50	TNFR06	$ 4.50	
	AC1008	TAMR08	$ 4.50	TAFR08	$ 4.50	
	NC1012	TNMR12	$ 6.50	TNFR12	$ 7.00	
	NC1016	TNMR16	$ 8.50	TNFR16	$ 9.00	
Series F	FC1004	TFMR04	$ 6.00	TFFR04	$ 6.00	
	FC1006	TFMR06	$ 6.00	TFFR06	$ 6.00	
	FC1008	TFMR08	$ 6.00	TFFR08	$ 6.00	
	FC1012	TFMR12	$ 7.00	TFFR12	$ 7.00	
	FC1016	TFMR16	$ 10.00	TFFR16	$ 10.00	
Series S	SC1004	TSM04	$ 24.00	TSF04	$ 25.00	
	SC1006	TSM06	$ 25.00	TSF06	$ 29.00	
	SC1008	TSM08	$ 31.00	TSF08	$ 33.00	
	SC1012	TSM12	$ 33.00	TSF12	$ 37.00	
	SC1016	TSM16	$ 61.00	TSF16	$ 64.00	
	SC1020	TSM20	$ 81.00	TSF20	$ 81.00	
	SC1024	TSM24	$ 95.00	TSF24	$ 95.00	



Breakaway Coupler Assemblies

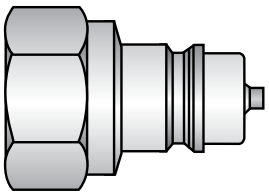


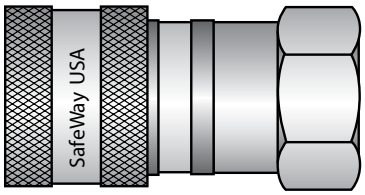


S10 Series

This general purpose Industrial Interchange meets new ISO 7241 Interchange and Performance requirements. Couplings are double shut-off poppet type in steel, brass and stainless steel, with Buna-N seals standard. A one-way sleeve is used on all sizes, 1/4" to 1". This series is a direct interchange for Parker 60 series, Hansen HK series, Aeroquip FD-45 series and others.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4" NPT	5000 PSI	Poppet	S105-2	$ 26.00	S101-2	$ 18.00	S10-2	$ 44.00
3/8" NPT	4000 PSI	Poppet	S105-3	$ 44.00	S101-3	$ 20.00	S10-3	$ 64.00
1" NPT	3000 PSI	Poppet	S105-8	$ 149.00	S101-8	$ 49.00	S10-8	$ 198.00

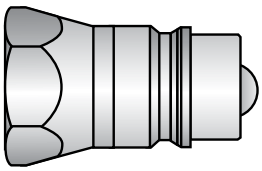


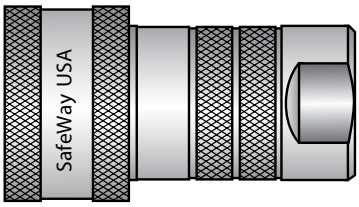


S20-2 Series (1/4" only)

A general purpose Quick Coupler with a one-way sleeve. This 1/4" coupling is a direct interchange with the Bruning D-200 and SM250 Series. Designed to operate at working pressure of 6,000 psi in the coupled mode.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4" NPT	4000 PSI	Ball	S25-2	$ 34.00	SH21-2	$ 18.00	S20-2	$ 52.00
1/4" NPT	4000 PSI	Poppet	S25-2P	$ 35.00	SH21-2P	$ 21.00	S20-2P	$ 56.00
9/16" UNO	4000 PSI	Ball	S25-14	$ 35.00	SH21-14	$ 21.00	S20-14	$ 56.00
9/16" UNO	4000 PSI	Poppet	S25-14P	$ 39.00	SH21-14P	$ 23.00	S20-14P	$ 62.00



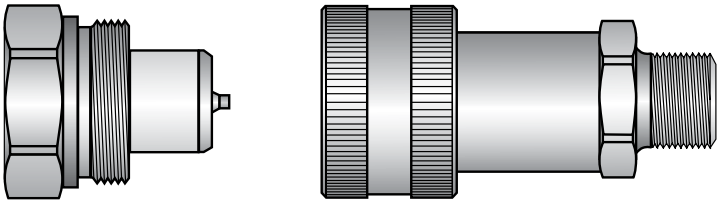


S20 Series

This general purpose economy Coupler features a one-way sleeve designed to allow implement breakaway when clamp mounted. Available with either ball or poppet type checks.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/2" NPT	3000 PSI	Poppet	S25-4P	$ 31.00	S71-4P	$ 26.00	S20-4P	$ 57.00
3/4" UNO	3000 PSI	Poppet	S25-15P	$ 44.00	S71-15P	$ 26.00	S20-15P	$ 70.00
7/8" UNO	3000 PSI	Ball	S25-16	$ 44.00	S71-16	$ 25.00	S20-16	$ 69.00
7/8" UNO	3000 PSI	Poppet	S25-16P	$ 45.00	S71-16P	$ 26.00	S20-16P	$ 71.00
3/4" NPT	4000 PSI	Ball	S25F-6	$ 115.00	S21F-6	$ 55.00	S20F-6	$ 170.00

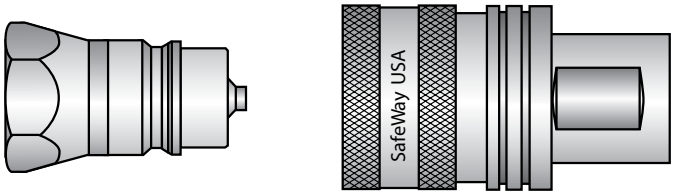
Breakaway Coupler Assemblies



S30 Series

Designed to withstand the extreme high pressures found in Hydraulic Jacks, Rams, Power Packs and similar equipment. Poppet valving eliminates leakage, increases burst pressure and provides less flow restriction. Interchangeable with similar couplings of the same size.

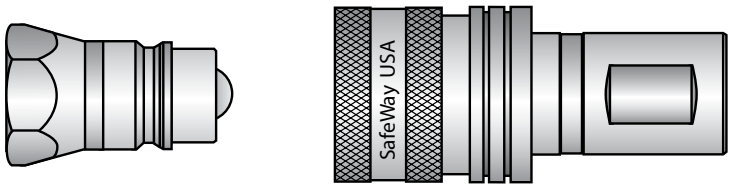
Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4" NPT	10,000 PSI	Poppet	S35-2P	$ 50.00	S31-2P	$ 36.00	S30-2P	$ 86.00
3/8" NPT	10,000 PSI	Poppet	S35-3P	$ 55.00	S31-3P	$ 43.00	S30-3P	$ 98.00



S40 Series

Dimensionally interchangeable with the S20 Series, this general purpose Coupler features a two-way sleeve designed to allow one hand hook-up and breakaway when clamped or bulkhead mounted. Available in 1/4" to 1/2" sizes, the S40 is available with either ball or poppet type checks.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4" NPT	4000 PSI	Ball	S45-2	$ 35.00	S41-2	$ 20.00	S40-2	$ 55.00
3/8" NPT	3000 PSI	Ball	S45-3	$ 35.00	S41-3	$ 23.00	S40-3	$ 58.00
1/2" NPT	3000 PSI	Ball	S45-4	$ 43.00	S71-4	$ 23.00	S40-4	$ 66.00
3/4" NPT	3000 PSI	Ball	S45-6	$ 50.00	S71-6	$ 28.00	S40-6	$ 78.00
3/4" UNO	3000 PSI	Ball	S45-15	$ 44.00	S71-15	$ 25.00	S40-15	$ 69.00
3/4" UNO	3000 PSI	Poppet	S45-15P	$ 46.00	S71-15P	$ 26.00	S40-15P	$ 72.00

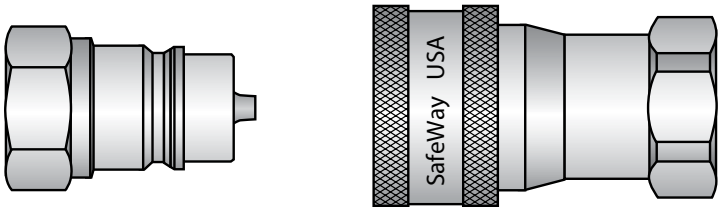


S70 Series

The S70 Series 'Flowmaster' design allows hook-up with full system pressure on one or both sides of the coupling. After hook-up the hydraulic circuit automatically opens when the hydraulic system is operated. The two-way sleeve design allows one hand hook-up and breakaway when clamped or bulkhead mounted. S70 Series Couplers and Male Tips meet ISO, SAE and ASAE interchangeability and performance requirements.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/2" NPT	3000 PSI	Tip - Ball Body - Poppet	S75-4	$ 91.00	S71-4	$ 23.00	S70-4	$ 114.00
1/2" NPT	3000 PSI	Poppet	S75-4	$ 91.00	S71-4P	$ 26.00	S70-4P	$ 117.00
3/4" UNO	3000 PSI	Tip - Ball Body - Poppet	S75-15	$ 96.00	S71-15	$ 25.00	S70-15	$ 121.00
7/8" UNO	3000 PSI	Tip - Ball Body - Poppet	S75-16	$ 96.00	S71-16	$ 25.00	S70-16	$ 121.00

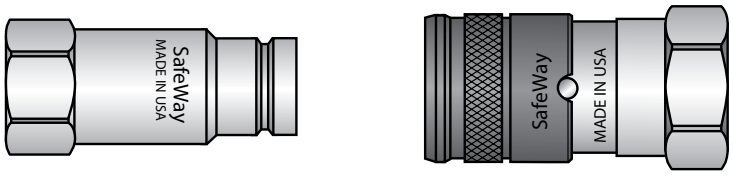
Breakaway Coupler Assemblies



S56 Series

Safeway's all-new S56 Series is a general purpose fluid transfer quick coupling that provides higher burst pressure and superior flow to that of Aeroquip FD56 (5600) Series and Parker 6600 Series, while providing half-to-half interchangeability. Our improved valving design provides these advantages in a significantly smaller and lighter design envelope.
The S56 Series is manufactured from high quality hardened carbon steel which is Zinc and clear Chromate plated for corrosion resistance. Due to Safeway's unique poppet style valving, the S56 Series has a shorter overall length and less weight than the couplers they replace.
The S56 Series is operationally rated at 4,000 psi (5,000 in 1/4" size). They meet or exceed ISO Series A Specifications for interchangeability and performance

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4" NPT	5000 PSI	Poppet	S565-2	$ 45.00	S561-2	$ 19.00	S56-2	$ 64.00
3/8" NPT	4500 PSI	Poppet	S565-3	$ 61.00	S561-3	$ 28.00	S56-3	$ 89.00
1/2" NPT	4000 PSI	Poppet	S565-4	$ 61.00	S561-4	$ 26.00	S56-4	$ 87.00
3/4" NPT	4000 PSI	Poppet	S565-6	$ 108.00	S561-6	$ 53.00	S56-6	$ 161.00
1" NPT	4000 PSI	Poppet	S565-8	$ 175.00	S561-8	$ 71.00	S56-8	$ 246.00

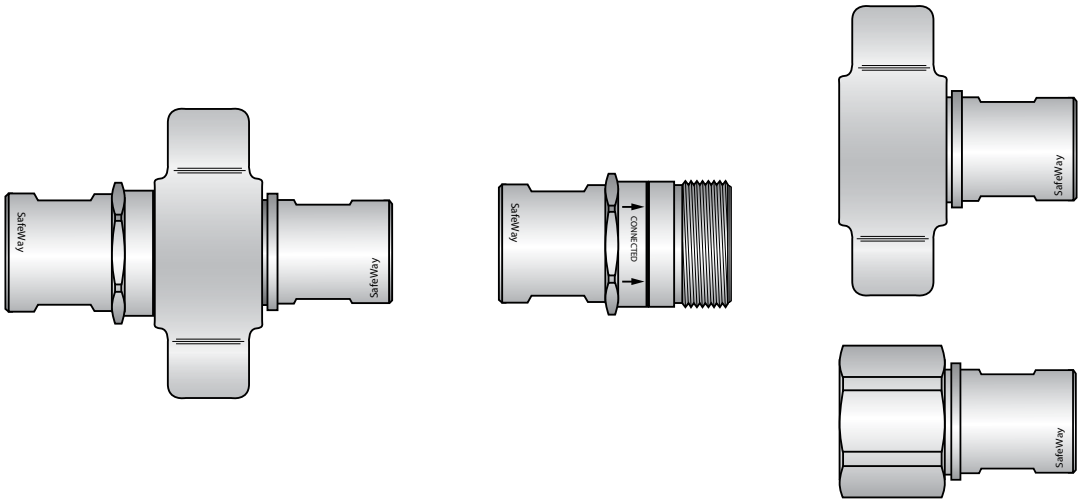


FF49 Series

Safeway's all-new FF94 Series is a unique flush face design which incorporates features common to this style quick coupling while significantly improving pressure containment and overall durability. Creative design and the use of exotic materials have allowed us to produce a push-to-connect quick coupling with a rated working pressure of 10,000 psi. This major improvement over existing designs will allow system engineers the flexibility they require.
Features include push-to-connect operation with a sleeve lock safety feature, additional locking balls (12 instead of 8) greatly improve durability and increase pressure containment, dual flush valving for non-spill dry breaks with low air inclusion and easy cleaning to minimise system contamination.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
3/8" NPT	10000 PSI	Poppet	FF495-3	$ 118.00	FF491-3	$ 46.00	FF49-3	$ 164.00
1/2" NPT	10000 PSI	Poppet	FF495-4	$ 121.00	FF491-4	$ 51.00	FF49-4	$ 172.00
3/4" NPT	6000 PSI	Poppet	FF495-6	$ 203.00	FF491-6	$ 129.00	FF49-6	$ 332.00
1-1/16" UNO	6000 PSI	Poppet	FF495-6-12A	$ 210.00	FF491-6-12B	$ 133.00	FF49-6-12	$ 343.00

Breakaway Coupler Assemblies



S51 Series

The S51 Series is a heavy-duty, double shut-off quick coupling capable of containing a variety of fluids. The S51 Series is ideally suited for use on dump trailers in the connection of the wet-line hydraulic system. This interchange is also widely used on oil field equipment and anywhere that connection under pressure with little or no spillage is required.
Interchangeable half-for-half with the Parker 6100 Series, Aeroquip FD51 (5100) Series and Snap-Tite 78 Series.
Brass body tip and poppet combined with a rugged steel valve for corrosion resistance and durability.
Connection-under-pressure can be accomplished due to our heavy-duty poppet assembly with bonded valve seals.
Safeway's Ductile Cast Iron Wing Nut is specifically built to withstand hammer blows associated with connection and disconnection under pressure.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
3/4" NPT	3000 PSI	Poppet	S515W-6	$ 165.00	S511W-6	$ 115.00	S51W-6B	$ 280.00
1" NPT	3000 PSI	Poppet	S515W-8	$ 210.00	S511W-8	$ 148.00	S51W-8B	$ 358.00

Breakaway Coupler Kits

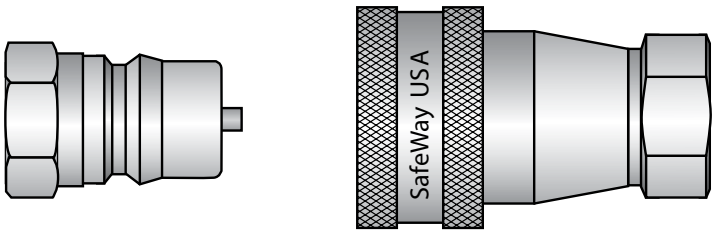
Stock No.	Comprises:	List Price
S47-4	Two S40-4 Couplers, One S42-4 Clamp, Two S49-4 and S44-4	$ 191.00
S77-4	Two S70-4 Couplers, One S42-4 Clamp, Two S49-4 and S44-4	$ 294.00

Brass Coupler Assemblies

BS10 Series - Brass Couplers

This general purpose Industrial Interchange meets new ISO 7241 Interchange and Performance requirements. Couplings are double shut-off poppet types in brass, with Buna-N seals standard. A one-way sleeve is used on all sizes, 1/4" to 1". This Series is a direct interchange for Parker 60 Series, Hansen HK Series, Aeroquip FD-45 Series and others.
Materials: Brass (BS) - Body, sleeve and valves are brass. Retaining rings, springs and locking (detent) balls are stainless steel. Buna-N (Nitrile) O'Rings are standard.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4" NPT	4000 PSI	Poppet	BS105-2	$ 61.00	BS101-2	$ 33.00	BS10-2	$ 94.00
3/8" NPT	3000 PSI	Poppet	BS105-3	$ 90.00	BS101-3	$ 41.00	BS10-3	$ 131.00
1/2" NPT	3500 PSI	Poppet	BS105-4	$ 139.00	BS101-4	$ 56.00	BS10-4	$ 195.00
3/4" NPT	2300 PSI	Poppet	BS105-6	$ 211.00	BS101-6	$ 77.00	BS10-6	$ 288.00
1" NPT	1600 PSI	Poppet	BS105-8	$ 274.00	BS101-8	$ 103.00	BS10-8	$ 377.00



Stainless Steel Coupler Assemblies

SS10 Series - Stainless Steel Couplers

This general purpose Industrial Interchange meets new ISO 7241 Interchange and Performance requirements. A one-way sleeve is used on all sizes, 1/4" to 1". This Series is a direct interchange for Parker 60 Series, Hansen HK Series, Aeroquip FD-45 Series and others.
Materials: 303 Stainless Steel (SS) - Body, sleeve, valves, retaining rings, springs and locking (detent) balls are all stainless steel. Buna-N (Nitrile) O'Rings are standard.

Thread	Max. Pressure	Check Type	Female Body	List Price	Male Tip	List Price	Complete Assembly	List Price
1/4" NPT	5000 PSI	Poppet	SS105-2	$ 92.00	SS101-2	$ 41.00	SS10-2	$ 133.00
3/8" NPT	5000 PSI	Poppet	SS105-3	$ 134.00	SS101-3	$ 65.00	SS10-3	$ 199.00
1/2" NPT	5000 PSI	Poppet	SS105-4	$ 204.00	SS101-4	$ 98.00	SS10-4	$ 302.00
3/4" NPT	3000 PSI	Poppet	SS105-6	$ 335.00	SS101-6	$ 149.00	SS10-6	$ 484.00
1" NPT	3000 PSI	Poppet	SS105-8	$ 446.00	SS101-8	$ 210.00	SS10-8	$ 656.00

Dust Plugs, Caps & Accessories

Complete Coupler No.	Dust Cap (Protects Tip)	List Price	Dust Plug (Protects Body)	List Price	Clamp	List Price	Bulkhead Ring	List Price
S10-8	P-PDC-8HK	$ 31.00	P-SDC-8HK	$ 31.00	-	-	-	-
S20-2(P)	S49-2	$ 9.50	S44-2	$ 9.50	-	-	-	-
S20-14(P)	S49-2	$ 9.50	S44-2	$ 9.50	-	-	-	-
S20-4P	S49-4	$ 9.50	S44-4	$ 9.50	S42-4	$ 68.00	-	-
S20-15P	S49-4	$ 9.50	S44-4	$ 9.50	S42-4	$ 68.00	-	-
S20-16(P)	S49-4	$ 9.50	S44-4	$ 9.50	S42-4	$ 68.00	-	-
S20F-6	5209-5	$ 31.00	5205-5	$ 31.00	-	-	-	-
S30-2P	S39-2	$ 21.00	S34-2	$ 12.00	-	-	-	-
S30-3P	S39-3	$ 21.00	S34-3	$ 12.00	-	-	-	-
S40-2	S49-2	$ 9.50	S44-2	$ 9.50	-	-	S43-2	$ 4.75
S40-3	S49-3	$ 9.50	S44-3	$ 9.50	S42-3	$ 38.00	S43-3	$ 5.50
S40-4	S49-4	$ 9.50	S44-4	$ 9.50	S42-4	$ 68.00	S43-4	$ 6.50
S40-6	S49-4	$ 9.50	S44-4	$ 9.50	S42-4	$ 68.00	S43-4	$ 6.50
S70-4(P)	S49-4	$ 9.50	S44-4	$ 9.50	S42-4	$ 68.00	S43-4	$ 6.50
S70-15	S49-4	$ 9.50	S44-4	$ 9.50	S42-4	$ 68.00	S43-4	$ 6.50
S70-16	S49-4	$ 9.50	S44-4	$ 9.50	S42-4	$ 68.00	S43-4	$ 6.50
S56-2	S59-2	$ 6.25	S54-2	$ 7.75	-	-	-	-
S56-3	S59-3	$ 7.75	S54-3	$ 9.50	-	-	-	-
S56-4	S59-4	$ 12.00	S54-4	$ 12.00	-	-	-	-
S56-6	S59-6	$ 12.00	S54-6	$ 12.00	-	-	-	-
S56-8	S59-8	$ 24.00	S54-8	$ 24.00	-	-	-	-

Agricultural Interchange Couplers

John Deere

Thread	Stock No.	Description	John Deere No.	List Price
1/2” NPT	S11-4	John Deere Cone Style Male Tip	AR30210	$ 29.00
3/4” UNO	S11-15	John Deere Cone Style Male Tip	AR30210	$ 29.00
1/2” NPT	S25-4-20	John Deere Cone Style Female Body	AR47331	$ 69.00
3/4” UNO	S25-15-20	John Deere Cone Style Female Body	AR47331	$ 69.00
	S42-4-20	John Deere Breakaway Clamp (Fits S25-4-20/S25-15-20 Couplers)		$ 49.00

S25-4-20 S11-4

S25-4-21P S12-4

S13-4

International Harvester

Thread	Stock No.	Description	John Deere No.	List Price
1/2” NPT	S12-4	International Harvester Style Male Tip	I-H544787R91	$ 33.00
3/4” UNO	S12-16	International Harvester Style Male Tip	I-H544787R91	$ 33.00
1/2” NPT	S25-4-21P	International Harvester Style Female Body	I-H544788RI	$ 69.00
3/4” UNO	S25-16-21P	International Harvester Style Female Body	I-H544788RI	$ 69.00
	S42-4-21	International Harvester Breakaway Clamp (Fits S25-4-21P/S25-16-21P)		$ 49.00

J.I. Case

Thread	Stock No.	Description	John Deere No.	List Price
1/2” NPT	S13-4	J.I. Case Old Style Male Tip	A160884	$ 33.00

Adaptors

Stock No.	Adapts This Male Tip	Adaptor	To This Female Body	List Price
S25-4-1	Safeway's S71 Series or other ISO		John Deere Old Style	$ 63.00
S25-4-2	Safeway's S71 Series or other ISO		International Harvester Old Style	$ 55.00
S25-4-3	John Deere Cone Style (old)		Safeway's S20, S40 or S70 Series or other ISO.	$ 66.00
S25-4-3D	John Deere Cone Style (old)		New Style John Deere ISO Casting or other ISO	$ 66.00
S25-4-4	John Deere Cone Style (old)		International Harvester Old Style	$ 66.00
S25-4-5	International Harvester (old)		John Deere Cone Style (old)	$ 66.00
S25-4-6	Safeway's S71 Series or other ISO		J.I. Case Old Style	$ 55.00
S25-4-7	International Harvester (old)		Safeway's S20, S40 or S70 Series or other ISO.	$ 66.00
S25-4-7D	International Harvester (old)		New Style John Deere ISO Casting or other ISO	$ 91.00
S25-4-8	J.I. Case Old Style		Safeway's S20, S40 or S70 Series or other ISO.	$ 66.00
S25-4-9	John Deere Cone Style (old)		J.I. Case Old Style	$ 66.00
S25-4-10	J.I. Case Old Style		John Deere Cone Style (old)	$ 75.00

Section 16
Pipe Clamps

MAKE	MODEL	PAGE
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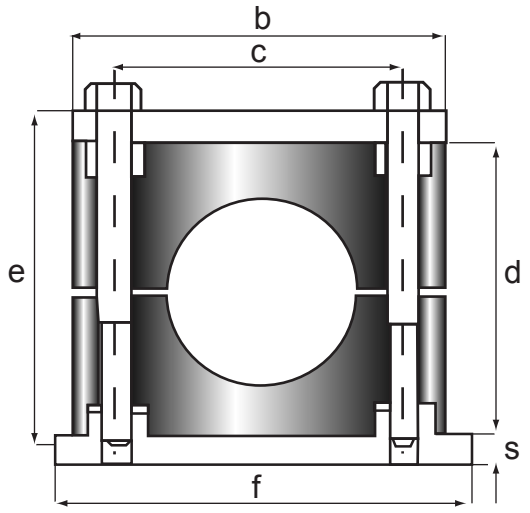
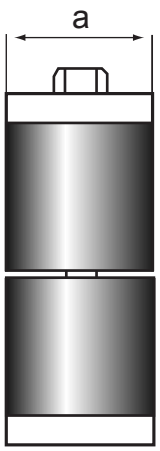
MAKE	MODEL	PAGE

Single Pipe Clamp Assemblies

Single Clamp Assemblies

Group	Size mm	Stock No.	Description	a	b	c	d	f	s	e	List Price
1	6	A106	Group 1 Single Clamp Assembly	30	34	20	27	41	3	M6x30	$ 4.70
	6.4	A1064									
	8	A108									
	10	A110									
	12	A112									
2	12.7	A2127	Group 2 Single Clamp Assembly	30	40	26	33	47	3	M6x35	$ 5.40
	14	A214									
	15	A215									
	16	A216									
	18	A218									
3	19	A319	Group 3 Single Clamp Assembly	30	48	33	35	54	3	M6x40	$ 5.40
	20	A320									
	22	A322									
	25	A325									
	25.4	A3254									
4	28	A428	Group 4 Single Clamp Assembly	30	57	40	42	61	3	M6x45	$ 5.90
	30	A430									
5	32	A532	Group 5 Single Clamp Assembly	30	38	52	58	74	3	M6x60	$ 8.10
	35	A535									
	38	A538									
	40	A540									
	42	A542									
	45	A545									
6	44.5	A6445	Group 6 Single Clamp Assembly	30	86	66	66	88	3	M6x70	$ 10.40
	48.3	A6483									
	50.8	A6508									

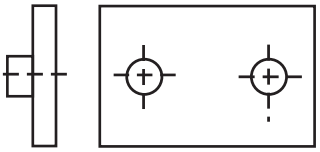




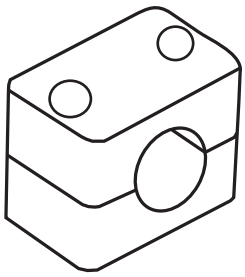
Single Pipe Clamp Components

Single Clamp Components

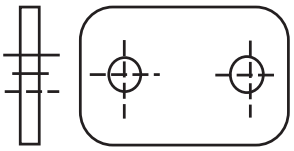
Group	Size mm	Jaws	List Price (2 pcs)	Base Plate	List Price	Top Plate	List Price	Bolt (2 Req)	List Price (ea)
1	6	A106C	$ 1.50	APIN1	$ 1.50	APS1	$ 1.00	AVTE1	$ 0.35
	6.4	A1064C							
	8	A108C							
	10	A110C							
	12	A112C							
2	12.7	A2127C	$ 1.50	APIN2	$ 2.00	APS2	$ 1.00	AVTE2	$ 0.45
	14	A214C							
	15	A215C							
	16	A216C							
	18	A218C							
3	19	A319C	$ 1.50	APIN3	$ 2.00	APS3	$ 1.00	AVTE3	$ 0.45
	20	A320C							
	22	A322C							
	25	A325C							
	25.4	A3254C							
4	28	A428C	$ 2.00	APIN4	$ 2.00	APS4	$ 1.00	AVTE4	$ 0.45
	30	A430C							
5	32	A532C	$ 3.00	APIN5	$ 2.50	APS5	$ 1.50	AVTE5	$ 0.55
	35	A535C							
	38	A538C							
	40	A540C							
	42	A542C							
	45	A545C							
6	44.5	A6445C	$ 4.00	APIN6	$ 3.00	APS6	$ 1.50	AVTE6	$ 0.95
	48.3	A6483C							
	50.8	A6508C							



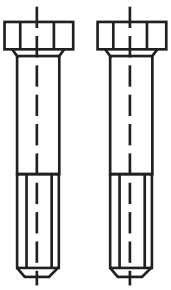
APIN*
Base Plate



A***C
Polypropylene Jaws



APS*
Top Plate

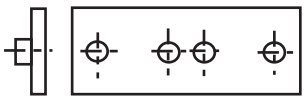


AVTE*
Bolt

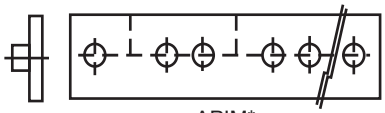
Single Pipe Clamp Components

Single Clamp Components

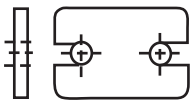
		Multiple Bases				Stackable Components			
Group	Size mm	Double Base Plate	List Price	Multiple Base Plate	List Price	Stacking Bolt (2 Req)	List Price (ea)	Intermediate Locking Plate	List Price
1	6	APID1	$ 3.50	APIM1	$ 21.00	AVTEA1	$ 3.00	APMRS1	$ 1.50
	6.4								
	8								
	10								
	12								
2	12.7	APID2	$ 4.00	APIM2	$ 21.00	AVTEA2	$ 3.00	APMRS2	$ 1.50
	14								
	15								
	16								
	18								
3	19	APID3	$ 4.50	APIM3	$ 22.00	AVTEA3	$ 3.00	APMRS3	$ 1.50
	20								
	22								
	25								
	25.4								
4	28	APID4	$ 5.00	APIM4	$ 12.00	AVTEA4	$ 3.00	APMRS4	$ 1.50
	30								
5	32	APID5	$ 5.00	APIM5	$ 15.00	AVTEA5	$ 3.50	APMRS5	$ 1.50
	35								
	38								
	40								
	42								
	45								
6	44.5	APID6	$ 5.50	APIM6	$ 18.00	AVTEA6	$ 4.00	APMRS6	$ 1.50
	48.3								
	50.8								



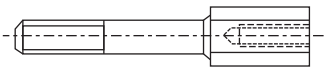
APID*
Double Base



APIM*
Multiple Base



APMRS* Intermediate Locking Plate



AVTEA*
Stacking Bolt

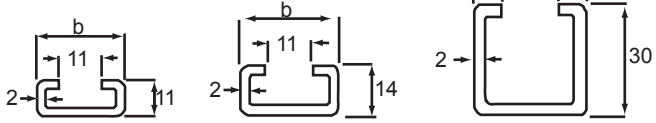
2 Metre Rail

Stock No.	Description	Length	Rail Nuts	b	h	List Price
ABINS1	Single/Double Clamp Rail	2 metres	ADES(D)	28	11	$ 28.00
ABINS2	Single/Double Clamp Rail	2 metres	ADES(D)	28	14	$ 35.00
ABINS3	Single/Double Clamp Rail	2 metres	ADES(D)	28	30	$ 44.00

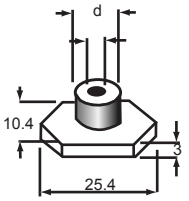
Rail Nuts

Stock No.	Description	Suits Rail	M	Ød (mm)	List Price
ADES	All Single & Double Group 1 Hexagonal Rail Nut	ABINS*	M6	12	$ 1.50
ADESD	Double Group 2-5 Hexagonal Rail Nut	ABINS*	M8	14	$ 1.50

ABINS* Rail



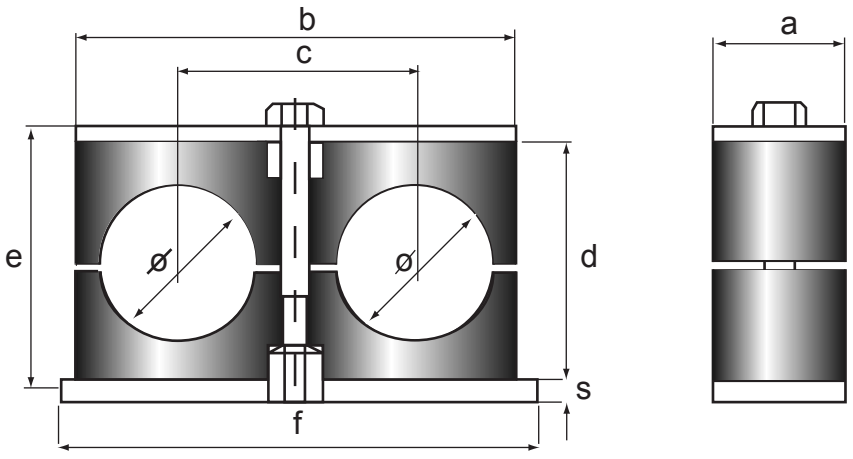
ADES*
Rail Nut



Double Pipe Clamp Assemblies

Double Clamp Assemblies

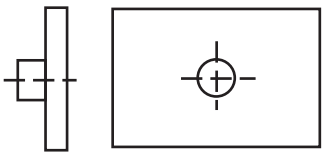
Group	Size mm	Stock No.	Description	a	b	c	d	f	s	e	List Price
1	6	AD106	Group 1 Double Clamp Assembly	30	37	20	25	37	3	M6x30	$ 4.95
	6.4	AD1064									
	8	AD108									
	10	AD110									
	12	AD112									
2	12.7	AD2127	Group 2 Double Clamp Assembly	30	53	29	26	55	5	M8x35	$ 6.00
	14	AD214									
	15	AD215									
	16	AD216									
	18	AD218									
3	19	AD319	Group 3 Double Clamp Assembly	30	67	36	37	70	5	M8x45	$ 7.05
	20	AD320									
	22	AD322									
	25	AD325									
	25.4	AD3254									
4	28	AD428	Group 4 Double Clamp Assembly	30	82	45	42	85	5	M8x50	$ 8.20
	30	AD430									
5	32	AD532	Group 5 Double Clamp Assembly	30	106	56	54	110	5	M8x60	$ 9.80
	35	AD535									
	38	AD538									
	40	AD540									
	42	AD542									



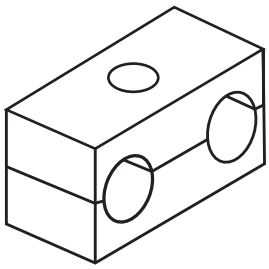
Double Pipe Clamp Components

Double Clamp Components

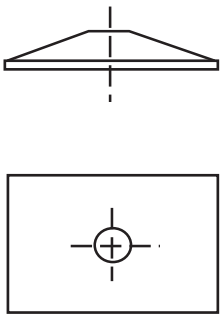
Group	Size mm	Jaws	List Price (2 pcs)	Base Plate	List Price	Top Plate	List Price	Bolt (1 Req)	List Price (ea)
1	6	AD10606C	$ 1.50	ADPIN1	$ 2.00	ADPS1	$ 1.00	AVTE2	$ 0.45
	6.4	AD1064064C							
	8	AD10808C							
	10	AD11010C							
	12	AD11212C							
2	12.7	AD2127127C	$ 2.00	ADPIN2	$ 2.50	ADPS2	$ 1.00	ADVTE2	$ 0.50
	14	AD21414C							
	15	AD21515C							
	16	AD21616C							
	18	AD21818C							
3	19	AD31919C	$ 2.50	ADPIN3	$ 2.50	ADPS3	$ 1.50	ADVTE3	$ 0.55
	20	AD32020C							
	22	AD32222C							
	25	AD32525C							
	25.4	AD3254254C							
4	28	AD42828C	$ 3.00	ADPIN4	$ 3.00	ADPS4	$ 1.50	ADVTE4	$ 0.70
	30	AD43030C							
5	32	AD53232C	$ 4.50	ADPIN5	$ 3.00	ADPS5	$ 1.50	ADVTE5	$ 0.80
	35	AD53535C							
	38	AD53838C							
	40	AD54040C							
	42	AD54242C							



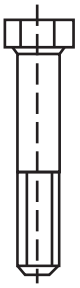
ADPIN*
Base Plate



AD***C
Polypropylene Jaws



ADPS*
Top Plate

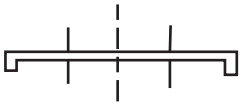


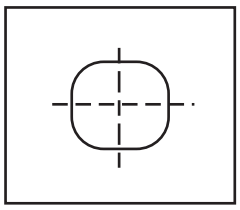
ADVTE*
Bolt

Double Pipe Clamp Components

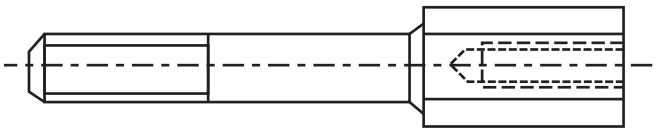
Double Clamp Components

		Stackable Components			
Group	Size mm	Stacking Bolt (1 Req)	List Price (ea)	Intermediate Locking Plate	List Price
1	6	ADVTEA1	$ 3.00	APMRSD1	$ 1.50
	6.4				
	8				
	10				
	12				
2	12.7	ADVTEA2	$ 3.00	APMRSD2	$ 1.50
	14				
	15				
	16				
	18				
3	19	ADVTEA3	$ 3.00	APMRSD2	$ 1.50
	20				
	22				
	25				
	25.4				
4	28	ADVTEA4	$ 3.00	APMRSD2	$ 1.50
	30				
5	32	ADVTEA5	$ 3.00	APMRSD2	$ 1.50
	35				
	38				
	40				
	42				





APMRSD* Intermediate Locking Plate



ADVTEA* Stacking Bolt

Notes

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